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Phil St. June 1911



“DIAMOND
QUALITY”
SEEDS



PORTLAND SEED CO.
PORTLAND, ORE.

SPECIAL ROSE OFFER FOR 1911

3 HARDY EVER-BLOOMING ROSES \$1 PREPAID

Large 2 years Field Grown Plants. Best of Their Color and Class

SEE PAGE 86.



VALUABLE PREMIUMS FREE

 If you wish to take advantage of these premium offers, be sure to make your selections when sending in your orders; otherwise they cannot be sent.

Aside from furnishing you with the best seeds that grow and the best stocks obtainable, we have made a practice during the past few years of offering free premiums with certain sized orders. We believe these have been fully appreciated by our customers.

THESE PREMIUMS ARE GIVEN ONLY WHEN CASH ACCOMPANIES ORDER AND AT PRICES PRINTED IN THIS CATALOG.

With a \$2.50 order Your choice of Vegetable or Flower Seeds in packets or ounces to the value of 25c., or any 25c. Lily, Dahlia, Canna or Gladioli Bulb.

With a \$10 order You may double the premiums on the \$5.00 order or choose any 50c. book in our list.

 Note.—The amount allowed on premiums cannot be deducted from the price, but is allowed over the amount of the order.

IF YOU SELECT PREMIUMS LISTED ABOVE, YOU ARE NOT ENTITLED TO OUR SPECIAL DISCOUNT OFFER BELOW ON SEEDS IN PACKETS AND OUNCES.

Special Rates on Seeds in Packets or Ounces—Postpaid

25 cents Worth of Seeds FREE with every \$1.00 order for Seeds in Packets and ounces. Remember, in packets and ounces only. \$1.25 for \$1.00, \$2.50 for \$2.00, and so on.

This does not apply on quantities over one ounce, or where any other premium is taken. If your order is not large enough to get the premiums wanted, get your neighbor to send with you—the premiums are worth the trouble.

We pay one cent (in seeds) per name for good addresses. See back of Order Sheet.

For Planting Tables and Weights, See page 47.

BOOKS ON GARDENING, POULTRY, ORCHARD, GREENHOUSE and FARM MANAGEMENT

We have a complete library of the latest works of recognized authorities. For list see General Catalog.

ORDER SHEET

Portland Seed Company, Portland, Oregon

WRITE YOUR ADDRESS PLAINLY IN THE BLANKS BELOW; also keep your order separate from other matters you may wish to write about. This enables us to FILL ORDERS RAPIDLY and correctly, and answers to your inquiries will not be delayed or overlooked.

Please read "How To Order" (Page 1) Before ordering, and save all misunderstanding.

DON'T FORGET TO SIGN YOUR NAME

Do not write in this space

Name _____

Post Office _____ Rural Route No. _____

Station _____

County _____ State _____

Date _____ Amount Enclosed, \$ _____

Forward by _____

State If wanted by Mail, Express or Steamer

Do not write in this space

In Ordering Peas, Beans and Corn by the Pound to be Sent by Mail, Add 10 Cents Per Pound for Postage

NOTE.—State what premium you want, otherwise none will be sent.—NOTE.

TOTAL AMOUNT OF ORDER,

NOTE.—State what premium you want, otherwise none will be sent.—NOTE

PORTLAND SEED CO'S

for 1911

Complete

Annual Catalog

AGRICULTURE, the foundation of all wealth, is claiming the best efforts of our great scientists and most able men, and the "call of the country" is drawing the business and professional man from the city to the healthy freedom of the rural life. Modern methods and the practical application of business principles to agriculture and allied industries have wrought a veritable miracle in this great awakening to possibilities and opportunities never before enjoyed.

To meet this new condition and to aid you in the intelligent selection of profitable varieties and suitable equipments we have carefully revised this catalog, offering only those items which our experience leads us to believe are best. To further assist, we want to co-operate with you, to know your failures and successes. This enables us to improve our service by helping you to avoid and correct errors, and to command success from seeming failure.

For more than twenty years we have served a steadily increasing trade and shall continue to give our best efforts to further the interests of our customers; your inquiries will receive prompt replies, your orders our most careful attention, always guaranteeing satisfaction. Let us know your requirements; we may save you much needless expense.

PORTLAND SEED COMPANY.

READ CAREFULLY

HELPFUL SUGGESTIONS ABOUT ORDERING

WHEN TO ORDER. Send in your combined orders for seeds, plants, supplies, etc., at once. We are prepared to fill orders as soon as this Catalog reaches you, and if you do not want all sent now we will send part now and the balance later. The advantage of this is that your order is entered and filled or stock reserved for it; and when you do want it, it can be sent upon notice without delay. If you want part or all of your order held, state it distinctly with date when shipment is to be made. All orders for potatoes, plants and other perishable goods are carefully booked on receipt, and filled in rotation as soon as weather permits. If shipped early, they are at buyer's risk.

SEND MONEY BY Postoffice or Express Money Order, Bank Draft or Registered Letter. Postage stamps will be accepted for small amount. Money sent in any other way is entirely at sender's risk.

USE ORDER BLANK in the front of your Catalog, carefully filling out the blank spaces at the top for shipping directions.

SEEDS POSTPAID BY MAIL. We send all vegetable and flower seeds in quantities of one pound or less by mail, postpaid, to any Post-office in the United States, at the prices named in this Catalog, unless otherwise stated.

BY FREIGHT OR EXPRESS. In ordering vegetable or flower seeds to be sent by freight or express at your expense, deduct 10c per pound from single pound prices, where postage has been added.

LARGE ORDERS. Any dealer, market gardener, institution or individual wishing seed in large quantities, is requested to mail us a list of what is wanted, and we will promptly return it with the very lowest market prices. A letter of inquiry may save you dollars if you want to buy in quantity.

NOTE.—We use every precaution in procuring fresh, pure and reliable seeds, etc., but we, in common with other responsible seed houses, sell our goods subject to the following disclaimer, it being that adopted by the American Seed Trade Association; i. e.:—We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs or plants sent out, and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they are at once to be returned.—Portland Seed Co.

BE SURE TO SIGN YOUR NAME, giving Postoffice and State. Do not write letters on the same sheet as orders.

PREPAY STATIONS. When you send in orders to go by freight or express, be sure that you add money enough to pay freight charges if your station is a prepay, which is always the case where there is no regular agent.

COMPLAINTS OR PRAISES. If you are well pleased with our goods and manner of doing business, tell everyone. If you are not, tell us, so we can please you. Our best efforts will be put forth in filling all orders carefully, and with our added equipment and perfected organization, we hope to handle our future business in a way that will please you.

Be sure to order early—before stocks are depleted.

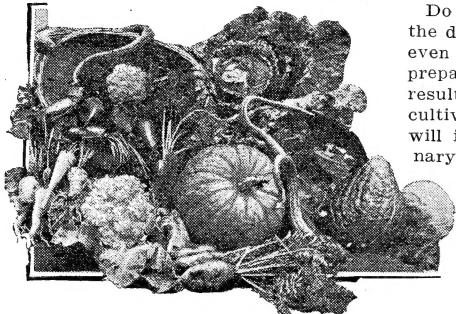
"Diamond Quality" Vegetable Seeds

**Grown especially for us from our own selected strains.
Carefully recleaned, and tested for germination.**

WE have marked those varieties that **mature early** with this little Diamond  , our trade mark. This will aid you in the selections for your home garden.

If you live in Northeastern Oregon or Washington, you will have better success with your garden by planting these early maturing varieties after the spring weather is settled and the ground warm, than if you planted very early, as many seeds will not give best results in the cold damp of the early spring, and even if they live the plant may be stunted and not grow well. Of course, these suggestions are only general, as you will note that many special sorts can be planted very early.

If you live in the Willamette Valley or Southern Oregon, you can plant almost anything as early as the condition of the soil will permit.



Do not work the soil when it is wet, and if you will press the dirt firmly down on the seeds they will germinate quickly even in comparatively dry soil. Any extra work in carefully preparing the soil will more than repay you in the increased results, and always remember that constant and thorough cultivation is almost equal to water and fertilizer both, and will insure a good crop even in a dry season, and on ordinary soil.

If you are in doubt about what you should do, or want any special information, be sure to write to us. We will be pleased to give your inquiries our careful attention, and will advise you to the full extent of our knowledge.

ASPARAGUS

Asparagus is one of the earliest spring vegetables, and would be in universal use were it not for the mistaken idea that it is difficult to grow. In reality it can be produced very easily and cheaply. A bed 15x50 feet, requiring about 100 plants, should give an abundant supply for an ordinary family.

CULTURE—Soak the seeds 24 hours in warm water, and sow early in drills one foot apart. An ounce of seed will sow about 300 feet of drill. Keep the soil mellow and free from weeds. After one year's growth, transplant into permanent beds. A warm, sandy soil is the best, and one which has for some years been cultivated in garden crops and heavily manured is greatly to be preferred to a fresh soil. But at no period of its growth should the asparagus crop be allowed to lack for manuring. **From one to three years' time can be saved by buying roots of us.** See plant department. 7260 roots will plant an acre.

ARGENTEUIL.

A popular French asparagus of great merit; large and superior to Palmetto; of vigorous, even growth; very early.

Pkt., 10c; oz., 20c; lb., \$1.50.

CONNOVER'S COLOSSAL.

A large and rapid grower of excellent quality.

Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 85c.

COLUMBIAN MAMMOTH WHITE.

A newer, distinct and valuable variety. The stalks are white, of the largest size; very productive and early.

Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 85c.

PALMETTO.

The best known green variety. An earlier, better yielder and more even grower than Colossal.

Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 85c.

Artichoke**LARGE GREEN GLOBE.**

The variety used as a table vegetable. The edible portion is the thick end of leaf of the flower head. Sow early in drills one foot apart, and when about ten inches high transplant into rows four feet apart each way. It will produce only a small crop the first year, but will continue in good bearing five years. Cut before the bud opens.

Pkt., 5c.; oz., 35c.

JERUSALEM.

Distinct from the Globe; produces tubers like potato; grown in the same way. Price and description page 43.

**RHUBARB For Early Spring, 2 years old roots are the best.
See plant department.**



GREEN
GLOBE
ARTICHOKE

BEANS

For 1911 we offer two beans of surpassing quality, and of great value to market gardeners, as well as home gardens.

THE NEW PENCIL POD WAX, which has proven its claim to being the best wax bush bean; and our OREGON POLE LIMA, illustrated on page 33.

Our general selection of varieties includes those best adapted to western conditions and will give best results in their respective classes.

CULTURE.—The soil best adapted for growing beans is a light, rich, well-drained loam, which was well manured for the previous crop. If the ground is too freshly manured, the plants are apt to run to vines and set few blossoms. Plant in drills about two inches deep and from eighteen inches to two feet apart, as soon as the ground is dry enough. Beans are very sensitive to cold and wet before they have sprouted, but are not so liable to be damaged after they are above ground.

 When ordering Beans by mail, add 10c per pound for postage

We
Hand
Pick
Peas
and
Beans

Wax or Yellow Podded Kinds

Pencil Pod Black Wax

 "Pencil Pod" is the best Black Wax Bean ever offered.

Of dwarf, bushy growth, about fifteen inches high, large luxuriant foliage, beneath which in great clusters will be found an enormous crop of beautiful straight golden yellow pods six to seven inches long, well rounded, deeply "saddle backed," meaty and solid clear through; they are brittle, of rich, mild flavor, and entirely stringless. An early, sure cropper; of the finest quality.

Pkt., 10c; 1 lb., 30c; 10 lbs., \$2.25

VIOLET FLAGEOLET OR PERFECTION WAX.

One of the earliest wax varieties, and continues in bearing until late fall. It is of sturdy habit, bearing its fine, large stringless pods in great profusion well up from the ground. We recommend it as the best Wax Bean for home gardens.

Pkt., 10c; 1 lb., 20c; 10 lbs., \$1.75

DAVIS WAX.

Rustless and immensely productive, very hardy and one of the best for market gardeners. The dried bean is kidney-shaped, clear white, and a favorite for baking and canning.

Pkt., 10c; 1 lb., 20c; 10 lbs., \$1.50

WARDWELL'S KIDNEY WAX

Vines are of medium size, with long, flat pods of a delicate, waxy yellow, very brittle and entirely stringless. We specially recommend this bean.

Pkt., 10c; 1 lb., 15c; 10 lbs., \$1.25

EXTRA EARLY CHALLENGE BLACK WAX.

Market gardeners and others to whom earliness is a matter of prime importance cannot afford to be without this, which is truly the "earliest of all" wax beans.

Pkt., 10c; 1 lb., 20c; 10 lbs., \$1.50

GOLDEN WAX.

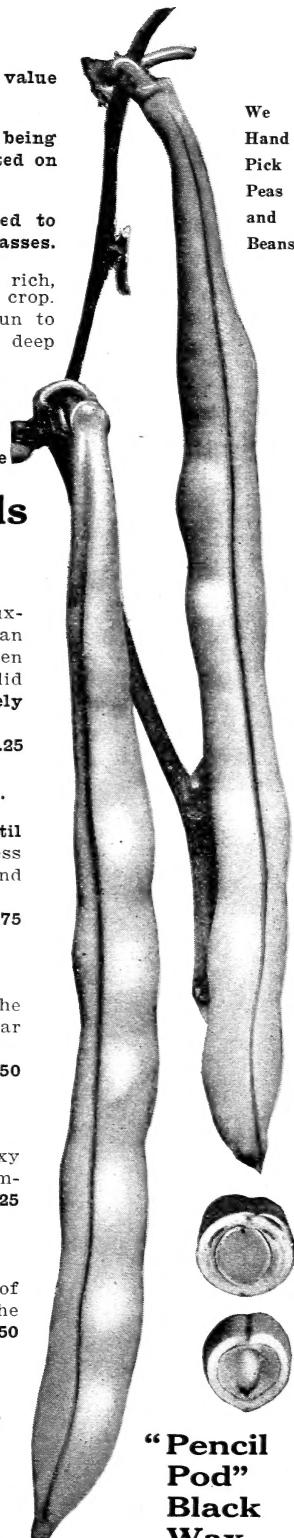
Very hardy and productive.

Pkt., 10c; 1 lb., 15c; 10 lbs., \$1.35

DETROIT WAX (Rust Proof).

Extra early; one of the best for shipping long distances.

Pkt., 10c; 1 lb., 15c; 10 lbs., \$1.25



**"Pencil
Pod"
Black
Wax**

BEANS—Continued

DWARF OR BUSH—GREEN PODDED KIND

 When ordering Beans by mail, add 10c per pound for postage.

CANADIAN WONDER.

This splendid Bush Bean is the largest, most prolific of the green-podded sorts, and is entirely stringless in its early developments. Comes a little later than the New Stringless Green Pod, but continues in bearing throughout the season, and is excellent shelled green.

Pkt., 10c; lb., 15c; 10 lbs., \$1.25

◆ NEW STRINGLESS.

The finely shaped, long green pods are absolutely stringless, and are ready to market two weeks earlier than any other green-podded bean. It is of immense value, not only to the market gardener, but also for those who seek early beans of a rare quality for the home table.

Pkt., 10c; lb., 15c; 10 lbs., \$1.50

EXTRA EARLY RED

◆ VALENTINE

This improved strain has a healthy, vigorous growth. The Beans are small, but the pods are thick, round and fleshy; very tender, rich, and quite stringless. A popular bean for canning green.

Bush grows to a height of fifteen inches and is very prolific.

Pkt., 10c; lb., 15c; 10 lbs., \$1.25.

**Our Fertilizer
Book is Free
Send For It**



CANADIAN WONDER.

REFUGEE, OR THOUSAND TO ONE.

Of great value on account of its hardiness, vigorous growth and wonderful productiveness. Is not excelled by any other variety as a snap bean, and is considered the best for pickling or canning. Beans small, dark purple, veined brown. Pods of perfect form, dark green, veined purple.

Pkt., 10c; lb., 15c; 10 lbs., \$1.10

DWARF HORTICULTURAL.

Grows erect, strong and shrubby. The bean is highly prized, green shelled. It is rather large, plump, and beautifully mottled yellow and red.

Pkt., 10c; lb., 20c; 10 lbs., \$1.50

ROYAL WHITE KIDNEY.

This bean is large, long, slightly curved, and pure white. It yields a heavy crop and is one of the best, either green shelled or dry.

Pkt., 10c; lb., 15c; 10 lbs., \$1.25

LADY WASHINGTON.

Sturdy, bushy plant, erect habit. The bean is large, broad and is a great improvement over the old "Navy," being much earlier, a little larger, and a very heavy yielder, being especially adapted to our western soils, and is entirely free from disease. Bush attains a height of about fourteen inches, and beans mature in September.

Pkt., 10c; lb., 15c; 10 lbs., 85c

BROAD WINDSOR.

Stock erect, strong and shrubby. The bean is large, broad and flat; it is the best green shelled.

Pkt., 10c; lb., 15c; 10 lbs., \$1.20

WHITE NAVY.

Grown extensively for marketing dry shelled. The best known small white bean. Dwarf in growth and very productive.

Pkt., 10c; lb., 15c; 10 lbs., 85c

CASTOR BEAN.

Used for medicinal purposes and by some claimed to keep moles away.

Pkt., 10c; lb., 25c.

Climbing or Pole Beans

If ordering by mail, add 10c. per pound for postage.

ASPARAGUS.

This is the true Asparagus Bean. A very prolific sort, producing its long pods in large clusters. The pods, when young, are nearly round, of best flavor and excellent for snaps. A profitable bean for the market gardener. Extensively used for canning.

Pkt., 10c.; lb., 30c.; 10 lbs., \$2.50.

INDIAN CHIEF, OR TALL BLACK WAX.

Remarkable for its fine, tender and succulent pods, which are produced in great abundance. Pkt., 10c.; lb., 15c.; 10 lbs., \$1.25.

KENTUCKY WONDER.

A vigorous climber; very prolific; bearing in clusters; extremely long and very fleshy, succulent pods, flat, thick and remarkably tender. A first-class pole variety.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.35

DUTCH CASE KNIFE.

Good corn hill bean; very early; pods long and flat; beans, white; used green or dry. Pkt., 10c.; lb., 15c.; 10 lbs., \$1.25

WHITE CREASE BACK.

A good, early, green-podded pole bean.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.35.

LAZY WIFE.

Pods are from four to five inches in length, produced in large clusters in great abundance. Dark green, thick, fleshy and stringless; of unusually rich flavor. Dry beans, pure white; excellent for winter use. Pkt., 10c.; lb., 20c.; 10 lbs., \$1.50.

LONDON HORTICULTURAL.

Very desirable for the family garden. Vines vigorous; pods green, streaked with red. Bean large, oval, cream colored, beautifully splashed with red. Has no superior, green shelled or dry. Pkt., 10c.; lb., 15c.; 10 lbs., \$1.35.

SCARLET RUNNER.

A favorite as a shell bean and for its flowers, which are bright scarlet; seeds broad and kidney shaped. Pkt., 10c.; lb., 25c.

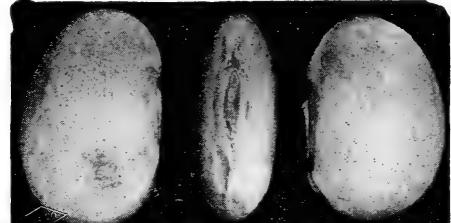


KENTUCKY WONDER.

New

PORTLAND SEED CO.'S Oregon Pole Lima (HALF DWARF)

The First Lima Bean We
Have Ever Known to
Thrive in Our Cool
Climate



Our "Oregon Pole Lima," introduced last season, more than made good all claims, and the reproduction on page 33 shows truthfully its wonderful productiveness. The clusters and blossoms were photographed on Oct. 15. The vines had been bearing since July without irrigation during the past dry season. One doubtful customer, always wary of "novelties," planted a packet but did not provide poles or any support for them, as he never before had a Lima Bean grow for him in Oregon, but every one of our "Oregons" came up and grew in the row without support, yielding great clusters of the finest beans and are still in bearing, Nov. 5. The photo was made from these plants. See letter.

Oregon Pole Lima grows to an average of about five feet, is a strong, thrifty vine and very prolific, bearing continuously until frost, the blossoms bursting from the top shoots in long panicles, while the pods can be seen in every stage of development, to the matured beans at the bottom of the vine. Pods are well filled, having three to five large beans of the finest quality, either green or dry.

Oregon Pole Lima can be planted in any garden soil as early as April or late as July. Give the same care and culture as other Beans.

Try "Oregon Pole Lima." It is a wonder; is sure to grow, and will produce more fine beans of delicious table quality than any variety we know of.

Price per pkt., 25c., post paid.

BURPEE'S BUSH LIMA.

Beans as large and as fine in quality as the pole varieties. It is also a heavy yielder.

Pkt., 10c.; lb., 25c.; 10 lbs., \$1.75.

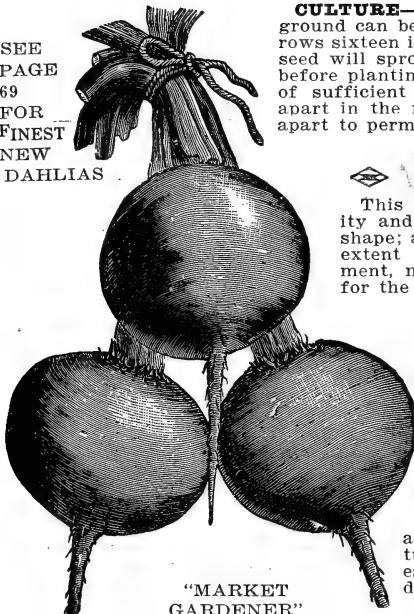
LARGE WHITE POLE LIMA.

Vine tall growing; pods long, broad, very thin, dark green; beans large, kidney shaped, greenish-white, flat.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.60

BEETS

SEE
PAGE
69
FOR
FINEST
NEW
DAHLIAS



EARLY ECLIPSE.

One of the best early sorts. It possesses all the qualities requisite in a first-class beet, and is of a uniform, globular shape. The roots are a bright, glossy red, fine-grained and delicious. **Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 65c.**

HALF LONG BLOOD.

A new variety of excellent quality. One of the very best for winter use; does not become woody and keeps as well as the Long Dark Blood. The root is smooth and handsome, and the flesh is brilliant in color and good in quality as the best Blood Turnip varieties. Give it a trial.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

SUGAR BEETS

FRENCH WHITE SUGAR.

(See Cut No. 6, page 7.)

The sort most generally grown, as it combines, with heavy yield, a good percentage of sugar. It has produced 30 tons of beets to the acre, and contains from 10 to 13 per cent of sugar. The largest yields known have been obtained from this variety.

Pkt., 5c.; oz., 10c.; lb., 35c.

KLEIN WANZLEBEN.

This is the variety which is considered best in Germany for producing sugar, and is now taking the lead in this country for this purpose. Our stock of seed is imported direct from one of the most careful German growers, and will give the very best results.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 40c.

CULTURE—The Beet is hardy and may be planted as soon as the ground can be well prepared, doing best in rich, sandy soil, sown in rows sixteen inches apart, covered one and one-half inches deep. The seed will sprout better if soaked twenty-four hours in warm water before planting. Thin out by using the largest ones when they are of sufficient size, continuing until they are six or eight inches apart in the rows. For field crop, the rows should be far enough apart to permit the use of a horse cultivator.



P. S. CO.'S MARKET GARDENER.

This new, extra early Beet is remarkable for its fine quality and rapid growth; it is of deep red color and handsome shape; as an early market sort it is unrivaled. It is to a large extent superseding the Egyptian, being earlier in development, more attractive in appearance and of superior quality for the table. Market gardeners prefer it.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 65c.



EXTRA EARLY EGYPTIAN.

The best variety for forcing, and for market gardeners, being very early with small tops. Roots very dark red, rounded on top, but flat beneath, with very small tap roots.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 75c.

DETROIT DARK RED TURNIP.

A fine Beet for bunching for market; tops exceptionally small and uniformly upright. The roots are perfect turnip-shape, with small tap roots. One of the deepest red beets. Quality is of the finest; sweet and tender; best beet for home garden.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 65c.

EARLY BLOOD IMPROVED TURNIP.

An extra selected stock of blood turnip, having larger, coarser tops and roots than the Detroit Dark Red, and requiring a longer time to mature. Excellent for summer and autumn use.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 65c.

LONG SMOOTH DARK BLOOD.

The leading late variety, keeping well all winter. Should be planted in rich, warm soil to secure rapid growth, which makes them tender. Top small, root long and smooth. Flesh deep purple, fine and sweet.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

LANE'S IMPERIAL SUGAR.

This is an excellent variety and one of the best for stock feeding.

Pkt., 5c.; oz., 10c.; lb., 40c.

SWISS CHARD.

(Sea Kale)

New Savoyed Leaf

LUCULLUS. A wonderful

new sort of "Spinach-

Beet" growing about two

and a half feet high. The

heavy stalks are over an

inch thick and bare for more

than a foot of their length.

Should be served as you would

asparagus and are a great deli-

cacy. The leaves make the finest

of "greens." Swiss chard is

hardy, easily grown, and should

be in every garden. It is one of

the most delicious of all vege-

tables.

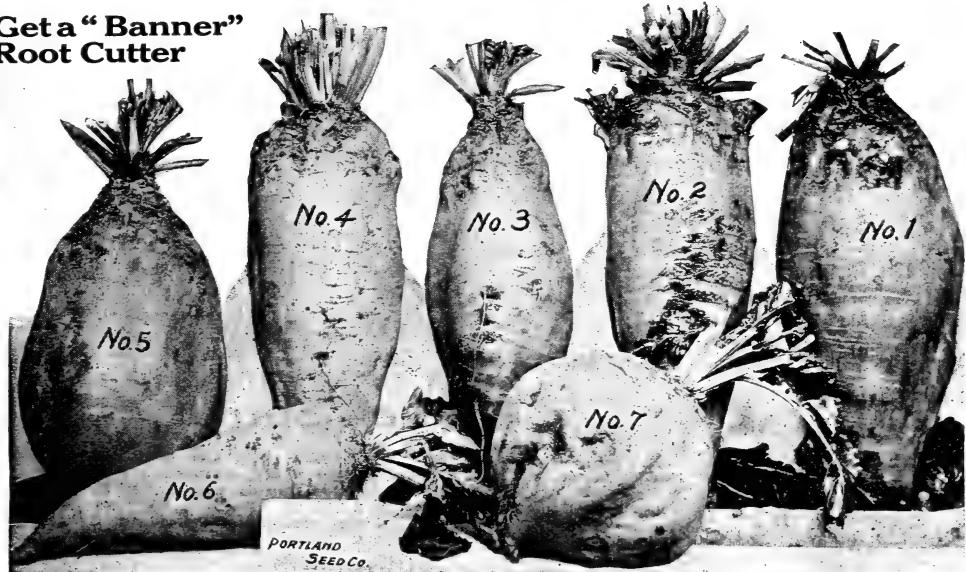
Pkt., 10c.; oz., 15c.; 1/4 lb., 40c.



MANGEL WURZEL BEET

These are grown extensively for stock feeding, and afford large quantities of fresh, nutritious and wholesome food during the winter months, in connection with grain and dried forage. Sugar Beets are richer and sweeter than Mangels, but the latter will generally produce one-third to one-half heavier crops per acre, and hence are preferred by many farmers.

Get a "Banner" Root Cutter



FAVORITE BEETS FOR STOCK FEEDING. (From Photograph). See cut numbers and description.

NEW MANGEL HALF SUGAR.

(Cut No. 4.)

A new variety, more valuable for feeding purposes than the old sorts, it being very much richer. In addition to this, the size and form have been improved until it yields as much per acre as the best Mangels, and twice as much per acre (bulk of roots) as the rich sugar beet. Roots large, very smooth, with few rootlets; creamy white in color, with medium sized top. **Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 45c.**
Not postpaid, 1 lb., 35c.; 5 lbs., \$1.50.

MAMMOTH LONG RED.

(Cut No. 2.)

An improvement on the Long Red. It stands head and shoulders above all other varieties of Mangels; unequaled for yielding and feeding qualities. Grows to a very large size, and will yield 50 tons per acre with ordinary cultivation. If you want a large crop of large Mangels of good quality, don't fail to try this sort. Very uniform, smooth and of good shape. Should be grown in deep, loose soil.

Pkt., 5c.; oz., 10c.; 1/4 lb., 15c.; lb., 35c.

Not postpaid, 5 lbs., \$1.25; 10 lbs., \$2.15.

YELLOW GLOBE.

(Cut No. 7.)

Finest type of Yellow Globe in cultivation. Roots immense size, fine shape, small tap root, neat top. Flesh being very firm and fine grained, renders it an excellent keeping variety. Well adapted to shallow soils.

Pkt., 5c.; oz., 10c.; 1/4 lb., 15c.; lb., 35c.

Not postpaid, 5 lbs., \$1.25; 10 lbs., \$2.00.

YELLOW GIANT, INTERMEDIATE, OR GATE POST.

(Cut No. 1.)

Roots very large, growing over one-half out of the ground; flesh white, sweet and tender; tops bright green, comparatively small; neck small, short. We think perhaps this is the best of the yellow fleshed beets, because its fine flesh never becomes woody and its roots grow so well out of the ground that the crop is easily harvested. An enormous cropper.

Pkt., 5c.; oz., 10c.; 1/4 lb., 15c.; lb., 35c.

Not postpaid, 5 lbs., \$1.25; 10 lbs., \$2.25.

GOLDEN TANKARD.

(Cut No. 3.)

Considered indispensable by many dairy farmers. They state that they are able to obtain a higher price for milk when feeding cows on Golden Tankard. Sheep thrive on it. Golden Tankard is of a rich, deep yellow throughout. Early, hardy and a heavy cropper; on account of its shape the roots can be left standing close in rows.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 40c.

Not postpaid, 5 lbs., \$1.50; 10 lbs., \$2.50.

YELLOW OVOID.

(Cut No. 5.)

Similar to the Yellow Globe, but grows to a much larger size, and more of a half-long shape. Yields an enormous crop. One of the most desirable stock feeding Mangels.

Pkt., 5c.; oz., 10c.; 1/4 lb., 15c.; lb., 30c.

Not postpaid, 5 lbs., \$1.25; 10 lbs., \$2.00.

 **A "SHARPLES" is the only satisfactory Separator. Ask Us!**

BROCCOLI

Broccoli is very much like Cauliflower in general appearance and growth, but is hardier and will stand more cold and frost. Produces fine heads from late in the fall until early spring, according to time plants are set out. It is a very profitable crop, and is now being planted extensively. Culture same as for Cauliflower.

St. Valentine

The Finest of All Broccoli.

This grand new strain introduced by us is a sure header of immense size, finest quality, and is ready for market in February. The large, solid, handsome, white heads remain in good condition longer than other varieties.

Pkt., 15c.; $\frac{1}{4}$ oz., 75c.; 1 oz., \$2.50.

EARLY PURPLE CAPE.

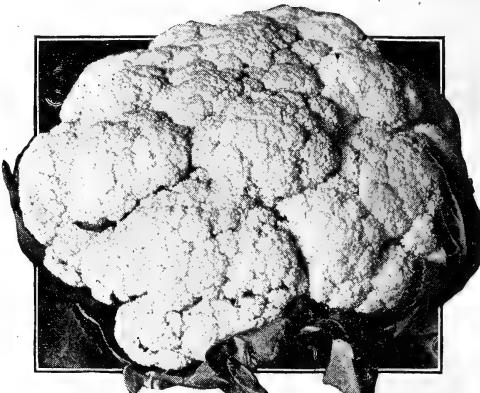
A popular sort; hardy; heads well. The heads are large, of a brownish tint and excellent flavor.

Pkt., 5c.; oz., 35c.; $\frac{1}{4}$ lb., \$1.15.

LARGE WHITE FRENCH.

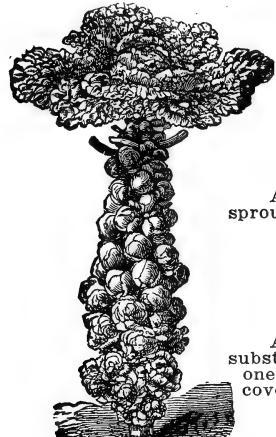
A valuable variety, with large, white heads, firm and of good flavor

Pkt., 5c.; oz., 40c.; $\frac{1}{4}$ lb., \$1.25.



ST. VALENTINE BROCCOLI.

Brussels Sprouts



The plants, which are very hardy, grow two or three feet high, and produce, from the sides of the stalk, numerous little sprouts, which resemble very small cabbages one or two inches in diameter. The leaves should be broken down in the fall, to give the little heads more room to grow. They should be treated in all respects like winter cabbage or kale.

DWARF IMPROVED.

A carefully grown strain, very hardy, and giving compact, round sprouts of large size and good quality.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 45c.

Corn Salad

FETTICUS, OR LAMB'S LETTUCE.

A refreshing salad, used extensively in winter and spring as a substitute for lettuce. It is often cooked like spinach. Sown in drills, one foot apart, in the spring or fall. On the approach of cold weather cover over with straw or coarse litter.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; 1 lb., 60c.

BRUSSELS SPROUTS.

Chervil

CURLED.

This plant is used for flavoring soups and salads, and has a strong perfume.

Pkt., 5c.; oz., 10c.; 1 lb., 30c.

Cress

CURLED, OR PEPPER GRASS.

This salad is much used with lettuce, to which its warm, pungent taste makes an agreeable addition. The seed should be sown in drills about 16 inches apart, on very rich ground, and the plants well cultivated. It may be planted very early, but repeated sowings are necessary to secure a succession. Keep off insects by dusting with Pyrethrum Powder.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; 1 lb., 50c.

TRUE WATER.

This is quite distinct from the former, and only thrives when its roots and stems are submerged in water. It is one of the most delicious of small salads, and should be planted wherever a suitable place can be found. The seed should be sown and lightly covered in gravelly, mucky lands, along the borders of small, rapid streams, and the plants will need no subsequent culture, as under favorable conditions they increase very rapidly by self-sown seed and extension of the roots.

Pkt., 5c.; oz., 35c.; $\frac{1}{4}$ lb., \$1.00.

Collards

TRUE GEORGIA.

Used as "Greens" mainly in the South and West. As the leaves are pulled off, others grow in their places.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 30c.

Chives

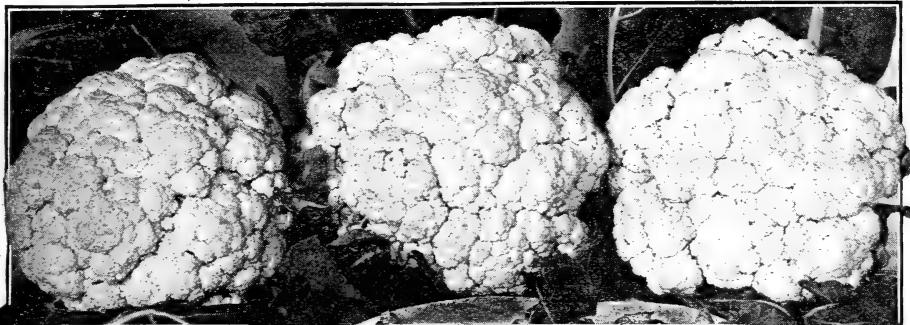
For Vegetable Plant List, see index.
We supply all vegetable plants in season.



WATER CRESS.

CAULIFLOWER

CULTURE—The Cauliflower succeeds well in any soil where cabbage will grow. But best results are obtained in rich soil with an abundance of water. By sowing early varieties in a hot bed in February or March, or later in a cold frame, fine heads can be obtained quite early. For a later supply sow seed in a prepared bed in May, choosing a cool, moist place. When large enough, transplant, making the rows about two and a half feet apart and eighteen inches between the plants. In dry seasons the crop must be watered.



Cauliflower Plants
In Season,
See Plant Dept.

OUR OWN SPECIAL STRAIN:
"MT. HOOD" EARLY SNOW-
BALL.

◆ P. S. Co.'s "Mt. Hood" Early Snowball

The seed that produces those handsome large white solid heads that bring big profits to the gardener. We offer our "Mt. Hood" Cauliflower seed in sealed packets only, under our own label, it having been carefully selected and grown for us by one of the very few expert Cauliflower growers, and is the best strain of Early Snowball obtainable. We especially recommend "Mt. Hood" Snowball for either early or late planting.

Price, Pkt., 25c.; $\frac{1}{4}$ oz., \$1.75; oz., \$3.00.

◆ SELECTED EXTRA EARLY DWARF ERFURT.

Remarkable for reliability in heading. Very dwarf, with solid, pure white heads of superior quality. If planted the first of March, heads nine to twelve inches in diameter will be ready early in June.

Pkt., 5c.; $\frac{1}{4}$ oz., 65c.; oz., \$2.00.

EARLY ERFURT.

Ordinary strain.

Pkt., 5c.; oz., 85c.; $\frac{1}{4}$ lb., \$3.00.

AUTUMN GIANT.

The heads are white, large, compact and thoroughly protected by foliage.

Pkt., 5c.; oz., 60.; $\frac{1}{4}$ lb., \$1.75.

◆ EARLY SNOWBALL.

Ordinary strain. This is the regular grade of Early Snowball that is generally offered, and while it will not give as good results as "Mt. Hood," can be depended upon to produce a good crop.

Pkt., 5c.; oz., \$2.00; $\frac{1}{4}$ lb., \$6.00.

LARGE ALGIERS.

A valuable late sort, sure to head, of the best quality and very popular with market gardeners everywhere. Plant large, but of upright growth, the leaves protecting the heads so that they will endure, uninjured, a frost that would ruin other sorts. One of the very best of the late varieties.

Pkt., 5c.; oz., 75c.; $\frac{1}{4}$ lb., \$2.50.

The Test of Time

Quinault, Wash., Feb. 14, 1910.

Portland Seed Co.

I must say that you have sent me good seeds through 8 years, and know you will send me for the year 1910 all good seed again.

Kennewick, Wash., March 21, 1910.

Dear Sirs:

I have purchased from you for many years and have always been well pleased.

Aliance, Cal., March 6, 1910.

Gentlemen:

I have been using your seed for five years with best of success.

Umpqua, Or., March 9, 1910.

Portland Seed Co.:

I have used your seeds for several years and find they are better than any others I ever tried. Am sending an order today.

WARNING.

Don't Buy cheap strains of Cauliflower seed. They will surely disappoint you and may cause a serious loss. If you grow for market, or only for your own use, buy the **BEST**. Our **"Diamond Quality"** select strains. They will produce the large, solid, white heads that can only be obtained from the selected seeds. Liberal applications of Nitrate of Soda and Kanit in Cauliflower culture are of great service. **Send for our Fertilizer Booklet—FREE.**

Plants in Season

CABBAGE

Plants in Season

CULTURE—The requisites for complete success are: First—Good seed. There is no other vegetable where the seed has so much influence on the quality of the product, and gardeners should always use the best procurable. Second—Rich, well prepared ground. Third—Frequent and thorough cultivation. A heavy, moist and rich loam is most suitable, which should be highly manured and worked deeply. Cabbage is universally grown, and specific directions regarding the time and method of planting applicable to all localities cannot be given. In general, the early sorts should be sown very early in hot beds, hardened off by gradually exposing them to night air, and as early as the ground is in good condition transplanted, setting 18 to 36 inches apart, according to size of variety.

The late autumn and winter varieties may be sown from the middle to the last of spring and transplanted when four to six inches high. Shade and water the late sowings in dry weather to get them up. It is important that the plants should not be crowded in the seed bed, or they will run up weak and slender, and be likely to make long stems.

**PORTLAND SEED CO.'S FIRST
CROP.**

The Ideal Early Cabbage.

The earliest of all pointed varieties and an ideal sort for the private or market gardener, as it takes but little room, and produces fine, solid heads **ten days ahead of any other cabbage**. We advise all our customers to try this new variety for we believe it is a **sterling novelty of the greatest value. Nothing superior has yet been offered.**

Pkt., 10c.; oz., 30c.; $\frac{1}{4}$ lb., 75c.



P. S. CO.'S FIRST CROP (from Photograph.)

EARLY JERSEY WAKEFIELD.

The favorite Early Cabbage with our market gardeners. A sure header. The thick, stout leaves and compact habit make it the best for wintering over and very early setting.

Grown more extensively for market than any other early cabbage. Is always of good size, very solid, and has but few outside leaves; a reliable header and always gives good satisfaction.

Pkt., 5c.; oz., 25c.; $\frac{1}{4}$ lb., 75c.; 1b., \$2.50

EXTRA EARLY EXPRESS.

Produces medium-sized, pointed heads, in 80 to 85 days from sowing of seed.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; 1b., \$1.75.

EARLY YORK.

Small, but very early; very popular sort. Can be planted close together.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; 1b., \$1.75.

EARLY WINNIGSTADT.

A desirable variety, having conical, solid heads; a sure header under almost any conditions, and keeps better than most early varieties. Fine appearance and of excellent quality.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; 1b., \$2.00.

HENDERSON'S EARLY SUMMER.

About ten days later than the Jersey Wakefield. The head is round, and the largest of the early kinds; can be set close in the row, as the outer leaves are small. It remains long without bursting; is firm and of the best quality.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; 1b., \$2.00



EARLY SPRING.

The Earliest Flat-Headed Variety.

A wonderfully compact plant, with few outer leaves, so that a great number of fine, solid heads can be produced on an acre. Although it does not come to full maturity as early as Jersey Wakefield, it becomes solid enough for use about as early, and is by far the best early sort for those markets that demand a large round or flat cabbage. The plant is vigorous, with short stem. The heads are oval and very large for the size of the plant.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; 1b., \$1.75.

BUG DEATH, For Cabbage Worms,

NON-POISONOUS
EFFECTIVE

EARLY
JERSEY
WAKEFIELD
(True Type.)

CABBAGE—Continued]**POPULAR AND EARLY VARIETIES.**

EARLY DWARF FLAT DUTCH. Grows low on the stem; a sure header; firm, fine-grained, tender and excellent.

Pkt., 5c.; oz., 20c.; 1/4 lb., 60c.; lb., \$1.75.

EARLY DRUMHEAD. Heads slightly flattened; do not crack; keep well.

Pkt., 5c.; oz., 20c.; 1/4 lb., 60c.; lb., \$1.75.

SUREHEAD. Sure to head; compact; medium to large. Pkt., 5c.; oz., 20c.; 1/4 lb., 60c.; lb., \$1.75.

SUCCESSION, OR ALL SEASONS. Heads large, slightly flattened; grow low on the stem.

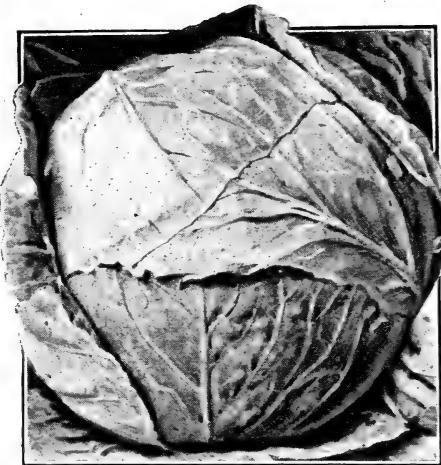
Pkt., 5c.; oz., 20c.; 1/4 lb., 60c.; lb., \$1.75.

CHARLESTON, OR LARGE WAKEFIELD. Large and a little later than the Early Jersey Wakefield. Pkt., 5c.; oz., 20c.; 1/4 lb., 60c.; lb., \$1.75.

SELECT
EXTRA
EARLY
DWARF
FLAT
DUTCH.



CABBAGE PLANTS—From November to following August we aim to have on hand large quantities of Cabbage Plants. See Plant Department.

Late Varieties**DANISH BALL HEAD OR HOLLOWLANDER.**

This is one of the hardiest cabbages in cultivation and endures both frost and drouth that would destroy other varieties.

Plants rather long-stemmed, but compact; leaves very smooth, but thick; head, of medium size, round and very solid, being the hardest heading cabbage we know of, and of the very best quality. Matures quite late, keeps well, and is considered by many the best cabbage to hold over for spring markets.

Pkt., 5c.; oz., 30c.; 1/4 lb., 90c.; lb., \$3.00

Diamond Ball Head

(See Illustration, page 33.)

An improved Danish Ball Head, re-selected for many years by our grower, who has been successful in securing a perfect late market sort of just the right size and finest quality. Heads are a little flatter than the older strain and stems shorter, color lighter green, but showing the characteristic reddish veins on the outer leaves. Solid, crisp, and of remarkable uniformity; market growers will get more perfect, saleable heads from "Diamond" Ball Head than from any other late cabbage.

Pkt., 5c.; oz., 30c.; lb., \$3.00.

PREMIUM LATE FLAT DUTCH.

This is superior to any other late cabbage in cultivation, when large areas are planted for shipping. It possesses all the good qualities of the Late Flat Dutch, and is a sure header.

Pkt., 5c.; oz., 20c.; 1/4 lb., 60c.; lb., \$1.75.

AUTUMN KING OR WORLD BEATER.

A sure header, very solid, fine-grained and tender. It grows quicker than any other large cabbage and will produce more to the acre. Color, dark green, with a slight bronze or brownish tinge to the outer leaves. The heads are remarkably thick through, and will attain a great weight. Has a short stem and grows near the ground.

Pkt., 5c.; oz., 25c.; 1/4 lb., 75c.; lb., \$2.50.

WELL-KNOWN AND POPULAR LATE VARIETIES.

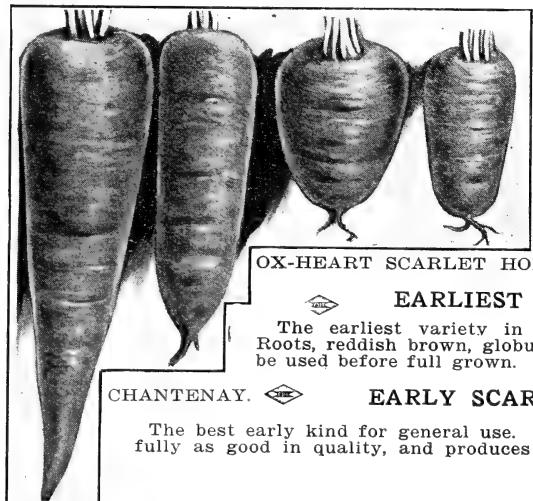
	Pkt.	Oz.	1/4 lb.	Lb.
PREMIUM LATE DRUMHEAD. Has no superior in any respect for family and market purposes, either for medium, early or late crop.	5c.	20c.	60c.	\$2.00
MAMMOTH ROCK RED. Used for pickling. The heads are very fine and remarkably sure heading.....	5c.	20c.	60c.	\$2.00
DRUMHEAD SAVOY. Large, compact head; tender and excellent; rich flavor	5c.	20c.	60c.	\$2.00

 **Get a Masters Plant Setter.**

One man can set and water 10,000 plants a day.

CARROTS

Carrots, aside from being one of our most useful and easily grown garden vegetables, are invaluable for stock feeding. They are greatly relished, preserve and promote health and will put a sleek coat on cattle or horses, giving a well kept appearance. Dairy and stockmen should grow them extensively. For their special use we recommend our **YELLOW GIANT**.



ST. VALERY.

CHANTENAY.

The best early kind for general use. It is larger than the forcing variety, but fully as good in quality, and produces a much larger crop.

EARLIEST SHORT HORN, OR FRENCH.

The earliest variety in cultivation, and best suited for forcing. Roots, reddish brown, globular and about 2 inches in diameter; should be used before full grown.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., \$1.00.

EARLY SCARLET HORN.

The best early kind for general use. It is larger than the forcing variety, but fully as good in quality, and produces a much larger crop.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 90c.

CHANTENAY.

The Market Gardener's Favorite.

Tops, medium sized; necks, small; roots, tapering slightly, but uniformly stump-rooted and smooth; color, deep orange red; flesh, very crisp and tender. Although this is a medium early sort, it furnishes roots of usable size as early as any; is a heavy cropper, and is undoubtedly one of the best for both the market and private garden, while its great productiveness makes it very desirable as a field sort.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 80c.

OXHEART.

A thick carrot, five or six inches long and very blunt at the lower extremity. It grows very rapidly and the root attains a weight of more than a pound. It is tender and of good flavor.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 85c.

• Good and Productive Stock Carrots

PORTLAND SEED CO.'S

YELLOW GIANT.

This new Carrot originated at the Sydney, Australia, Experimental Station, and has proved itself to be the **earliest and most productive stock carrot yet produced**. It is a half long variety, with an **immense broad shoulder**. The Carrot penetrates less than one-half the depth into the ground, which saves about one-half the expense of harvesting the crop. The color is of bright yellow, and is **perfection itself** for giving the proper color to butter. Every dairyman who wants a **big crop of carrots of the right quality and easy of culture** should plant our **Yellow Giant**.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.00

LARGE WHITE BELGIAN.

Extensively grown for stock feeding; very productive. Grows so much above ground that the entire crop can be pulled by hand.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 65c.

CULTURE—A sandy loam is the best soil for the carrot, but any good land, if thoroughly and deeply worked, will produce satisfactory crops. Sow as early in the spring as the ground is fit to work, though good crops may be grown from sowing as late as June 15. For table use, sow the smaller kinds in rows 16 to 18 inches apart, and for field culture prepare the ground thoroughly and sow in drills 18 to 24 inches apart. Cover one-half to one inch deep and see to it that the soil is well firmed above the seed.

EARLIEST SHORT HORN, OR FRENCH.

The earliest variety in cultivation, and best suited for forcing. Roots, reddish brown, globular and about 2 inches in diameter; should be used before full grown.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., \$1.00.

EARLY SCARLET HORN.

The best early kind for general use. It is larger than the forcing variety, but fully as good in quality, and produces a much larger crop.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 90c.

DANVER'S HALF LONG.

Grown largely on account of its productiveness and adaptability to all classes of soil. Tops, medium sized, coarsely divided. The smooth, handsome roots are of medium length, tapering uniformly to a blunt point; flesh, sweet, crisp, tender; deep orange in color. Although the roots of this variety are short, they produce as large bulk as the longer field sorts, and are more easily harvested.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 90c.

ST. VALERY.

A popular French Carrot of a deep, rich orange red color, with very straight roots, broad at the top and tapering abruptly near the point. Average length 10 to 12 inches; foliage small. The table quality is excellent and the fact that it yields heavily in light soils makes it useful as a stock carrot. We consider it a valuable variety.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., \$1.00.

YELLOW BELGIAN.

Large root; yellow flesh; good keeper for late feeding.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 15c.; lb., 50c.

PORLTAND SEED CO.'S IMPROVED LONG ORANGE.

Popular for farm use on deep, mellow soil. Our stock is an improvement obtained by years of careful selection of the best formed and deepest colored roots, which grow to a large size, some specimens averaging twelve inches in length. Enormous crops can be grown under fair culture one of the best varieties for feeding stock.

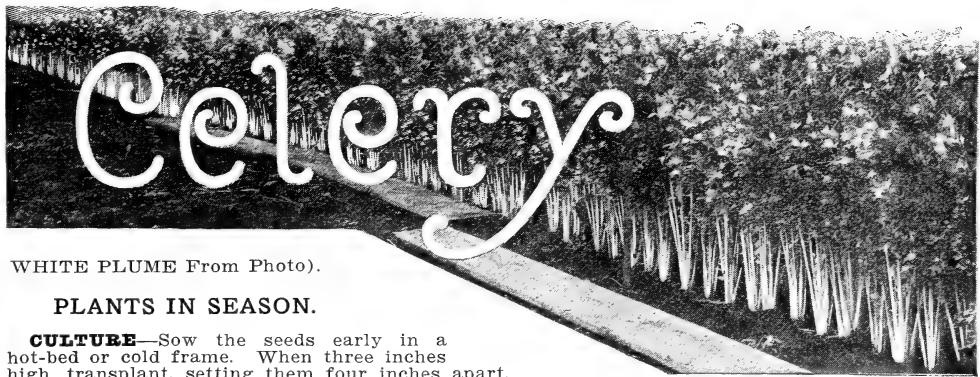
Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

IMPROVED SHORT WHITE.

Ranks as a field carrot, owing to its enormous productiveness and the ease with which it can be harvested. Roots half long, smooth, very heavy at the shoulder, but tapering regularly to the point; color, light green at the crown, white below; flesh, rich, white, solid, crisp and of excellent flavor.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 65c.

Prices on Carrots are postpaid, 5 lbs. or more of one kind at 5c. per lb. less than single lb. Ask for prices on larger quantities by freight or express.



WHITE PLUME From Photo).

PLANTS IN SEASON.

CULTURE—Sow the seeds early in a hot-bed or cold frame. When three inches high, transplant, setting them four inches apart. When grown six inches, and fine, stocky plants, set in richly manured, deep soil, in rows three and a half feet apart and about nine inches from plant to plant. Water, if dry weather follows transplanting. During the next two months all the attention that is required is to keep down the weeds. Afterward, earth up a little, and continue doing so at intervals until only the tops of the leaves are visible late in the autumn. Never hoe up the earth when plants are wet. One ounce of seed produces about six thousand plants.

Snow White New

The Handsomest White Celery

This new celery is a pure white, self-blanching variety, the result of years of careful selection and improvement. It is without a rival in purity of color. In vigorous growth, ease of blanching, size, richness of flavor, crispness and purity, it is ideal. Our engraving gives some idea of the beauty of this variety. Single stalks sometimes weigh 2½ pounds each. It grows solid on all kinds of soil and keeps better than many standard varieties; medium early.

Pkt., 10c; oz., 35c; ¼ lb., \$1.00



SNOW WHITE.

WINTER QUEEN—NEW.

This is without doubt the most valuable variety of celery for winter and spring use ever introduced. Has double the amount of heart of any known celery. The plant is beautiful in appearance, of close habit and compact growth, and blanches to a beautiful cream-white. Ribs perfectly solid, crisp and having a delicious nutty flavor.

Stored for winter or spring use, it is an excellent keeper, and when taken out the blanched stalks will be firm and crisp; entirely free from strings; brittle and of sweet flavor.

Pkt., 10c.

oz., 35c.; 2 oz., 65c.; ¼ lb., \$1.00.

WHITE PLUME.

The Leading White Celery.

A handsome, crisp sort, of very easy cultivation. Naturally its stalks and portions of its inner leaves and heart are white, so that by closing the stalks either by tying or by simply drawing the soil up against the plant and pressing it together, the work of blanching is completed without the troublesome process of "banking" or "earthing up." It is the earliest celery known.

**Pkt., 5c.; oz., 25c.;
¼ lb., 75c.; lb., \$2.50.**

GOLDEN YELLOW SELF-BLANCHING.

This is no doubt the best celery for early spring market use. Plants of a yellowish green color when young, but as they mature the inner stems and leaves turn a beautiful golden yellow, which adds much to their attractiveness and makes the work of blanching much easier.

Pkt., 5c.; oz., 35c.; ¼ lb., 90c.

LARGE WHITE SOLID

Of vigorous growth, white, crisp, tender; fine, nutty flavor. **Pkt., 5c.;
oz., 20c.; ¼ lb., 60c.; lb., \$1.75.**

GIANT PASCAL.

Largest variety grown; of fine, nutty flavor; very easily blanched. **Pkt., 5c.; oz., 15c.; ¼ lb., 50c.;
lb., \$1.50.**

GOLDEN HEART, OR GOLDEN DWARF.

Solid, of fine, nutty flavor; excellent. **Pkt., 5c.;
oz., 15c.; ¼ lb., 50c.; lb., \$1.50.**

CELERY SEED.

For flavoring. **Oz., 10c.; ¼ lb., 15c.; 1b., 35c.**

We can supply celery and other vegetable plants in any quantity. See Plant Department.

SWEET CORN

For best results in growing corn of any kind **DO NOT** plant until the ground is warm and **DO NOT** plant **TOO DEEP**; neglect of these two precautions has caused many failures.

"GORDON
AUTOMATIC
THE BEST
CORN
PLANTER
Costs but
\$1.50



EARLY
SUGAR

THE varieties of sweet corn we offer have been successfully grown in the Northwest, with the exception of the new "**Livingston's Early Sugar**". And are the best varieties for their several purposes. "**Early Sugar**" comes highly recommended and we will watch its growth with much interest.

◆ NEW SWEET CORN—LIVINGSTON'S EARLY SUGAR.

A grand new "dry weather" corn. Even after severe drouths, the stalks look as fresh and green as in the spring and the ears are well filled and perfect. In favorable seasons it will produce ears fit for table in 60 days from planting. Ears averaging 7 inches long contain from 12 to 14 rows of deliciously sweet, pure white kernels on white cob.

Sixty per cent of stalks in the field carry two perfect ears like those illustrated here. They are of faultless shape, invariably filled well to the tips.

Livingston's Early Sugar does not stool, but produces strong, sturdy plants which resist wind admirably. They stand up well, average 6 feet tall and furnish an abundance of fine fodder.

We recommend **Livingston's Early Sugar Corn** as one of the season's best novelties, and invite reports from those planting this new corn.

Pkt., 15c.; 3 for 40c.; postpaid.

◆ GOLDEN WEST.

The Sweetest, Richest Corn Ever Grown—You Can't Beat It.

Our **Golden West** still maintains its position as the sweetest, richest, best yielding, Sweet Corn ever grown, nothing having ever been produced that will compare with it in any way. **Golden West** is extremely hardy, can be planted earlier than other varieties, and, being of dwarf habit; can be planted closer than other sorts. It is the very best Corn for market or home gardens, where earliness and quality are considered. The color is a rich, creamy yellow, deepening to golden as it matures, and the quality is so fine that you must try it to appreciate how good Corn can be.

Pkt., 10c.; 1b., 15c.; 10 lbs., \$1.25.

OREGON EVERGREEN.

Illustrated on Page 34.

After careful growing tests we offer **Oregon Evergreen** as the finest main crop Sweet Corn because of its many superior advantages over other sorts, as follows:

First—The flavor and sweetness cannot be excelled.

Second—The extreme whiteness of the large ears make it very beautiful and valuable for canning.

Third—It is larger and the stalks produce more ears than any other variety.

Fourth and Last—It has a very heavy husk over the grains, protecting them from insects and keeping the ears fresh a long time after cutting.

Oregon Evergreen is a hardy, vigorous grower, and is the ideal Corn for market gardeners.

Pkt., 10c.; 1b., 15c.; 10 lbs., \$1.25.

◆ PEEP O'DAY. Ten Days Earlier Than Any Other—Sweet, Early, Productive.

For flavor, sweetness and productiveness it is ahead of any other early white sweet corn. It will prove a money-maker for the market gardener, and a valuable addition to our list of corn for our short Western summers.

Pkt., 10c.; 1b., 15c.; 10 lbs., \$1.25

MAMMOTH EARLY CORY.

The stalks are no larger than those of the White Cob Cory, but each stalk furnishes two or more large, fine-shaped ears, which are fit for use before those of most other sorts. The ears are 12-rowed, very symmetrical and handsome. The grain is large, broad, very white and of remarkably good quality.

Pkt., 10c.; 1b., 15c.; 10 lbs., \$1.00.

EARLY FORDHOOK.

This is the largest-eared, extra early, true **Sweet Corn**, averaging seven inches in length. It is two or three days earlier than the Cory, and has both grains and cobs of pure white coloring. The ears are eight-rowed, with quite small cob and deep grains. While similar in growth, it is greatly superior to the Cory in sweetness and flavor.

Pkt., 10c.; 1b., 15c.; 10 lbs., \$1.25.

WHITE COB CORY.

An improvement on the Red-Cobbed Cory, as well as being equally early. The ears are larger and it has both a white cob and a white grain. A splendid market garden variety, and excellent for the table.

Pkt., 10c.; 1b., 15c.; 10 lbs., \$1.00.

EARLY EVERGREEN. The Best Second Early Sweet Corn.

In the New Early Evergreen we have a selection possessing every good quality of Stowell's Evergreen, and resembling it in every respect, except that the stalk is about one foot shorter, more closely jointed, and that it will mature for market ten to fourteen days earlier.

Pkt., 10c.; 1b., 12.; 10 lbs., \$1.00

EARLY MINNESOTA.

This old and deservedly popular variety is one of the best early sorts for the market and the private garden.

Pkt., 10c.; 1b., 15c.; 10 lbs., \$1.00.

STOWELL'S EVERGREEN.

Remarkable for remaining a long time in a fresh condition suitable for the table. Hardy and productive, and the best late variety for general use. **Pkt., 10c.; 1b., 15c.; 10 lbs., \$1.00.**

 Add 10c to Lb. Price for Postage on Corn.

SWEET CORN—Continued

WELL-KNOWN AND STANDARD VARIETIES.

All 10c. per packet, postpaid.

	Per lb.	Per 10 lbs.
ADAMS' EXTRA EARLY. Not sugar corn; small ears for early use.....	10c.	\$0.90
BLACK MEXICAN. Black grains, sweet and delicious; fine for home use...15c.		1.00
COUNTRY GENTLEMAN. The sweetest and most tender of all Sweet Corns.15c.		1.25
EXTRA EARLY CORY (Red Cob). One of the earliest sweet varieties; when ripe, grains are pink.....	15c	1.00
MAMMOTH SWEET. Very large, white grain; early and productive.....	15c.	1.00

 Pound prices on Corn do not include postage; add 10c. extra per pound if wanted by mail.



HERE is no longer any doubt as to Corn being grown successfully in the Northwest, and careful tests have proven the following to be adaptable to our Coast climate. As a fodder crop corn cannot be excelled, and cut green and packed in silos it makes a valuable green feed for milch cows.

PORTLAND SEED COMPANY'S PREMIUM YELLOW DENT.

For eight consecutive seasons Premium Yellow Dent has been awarded the first prize at the Spokane Interstate Fair, which is a guarantee of its superior qualities and adaptability to our climate. Premium Yellow Dent is a Western grown corn, with large, broad kernels and big ears, very small cob, cut shows symmetrical beauty and uniform type; matures early, and yields large crops, either as grain or green fodder. If you have never had success growing Field Corn, try P. S. Co.'s Premium Yellow Dent.

1 lb., 10c.; 10 lbs., 85c.

MINNESOTA KING (Dent).

Recommended by the Agricultural College as the best variety for Western Oregon and Washington. Smallest cob and largest grain. The ears are uniformly well filled out. Makes more shelled corn to a given bulk of ears than any other variety. Golden yellow and a good yielder.

1 lb., 10c.; 10 lbs., 60c.

PRIDE OF THE NORTH, or YELLOW DENT.

Recommended, after repeated tests, by the Agricultural College, as the best for Eastern Oregon, Washington and Idaho. A quick growing dent variety, thriving well where the summers are not very long. Bright golden color.

1 lb., 10c.; 10 lbs., 50c.

WISCONSIN WHITE DENT.

Wisconsin White Dent is a large, handsome White Dent, extremely early and matures perfectly. The ear illustrated above was grown from our seed and was awarded the Blue Ribbon at the Multnomah County Fair. The best White Dent Corn for Oregon and Washington.

1 lb., 10c.; 10 lbs., 50c.

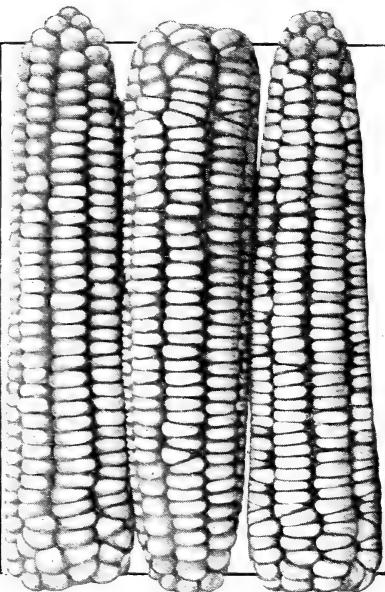
CHAMPION WHITE PEARL.

A large, white, late dent variety; very popular with our dairymen on account of the great amount of green feed it makes.

1 lb., 10c.; 10 lbs., 50c.

WELL-KNOWN AND STANDARD VARIETIES.

	Per lb.	Per 10 lbs.
EARLY CANADA (Flint). An eight-rowed Yellow Flint Corn; early and very productive	10c.	\$0.50
KING PHILIP. An early Red Corn; well acclimated and well known.....10c.		.50
LEAMING (Early). Corn yellow; grain small; weighty; productive	10c.	.50
EARLY WHITE FLINT. Productive, early and of beautiful appearance..10c.		.50
FODDER SWEET CORN. Mixture for soiling and green fodder	10c.	.80
WHITE RICE. Best variety for popping corn.....	10c.	.75



AUSTRALIAN WHITE FLINT.

A growing test of three seasons has demonstrated the adaptability of this valuable variety to Northwestern conditions. It is earlier than the well known "Eight-Row Canada," and is to be preferred on account of its color, productiveness and very early ripening.

1 lb., 10c.; 10 lbs., 50c.



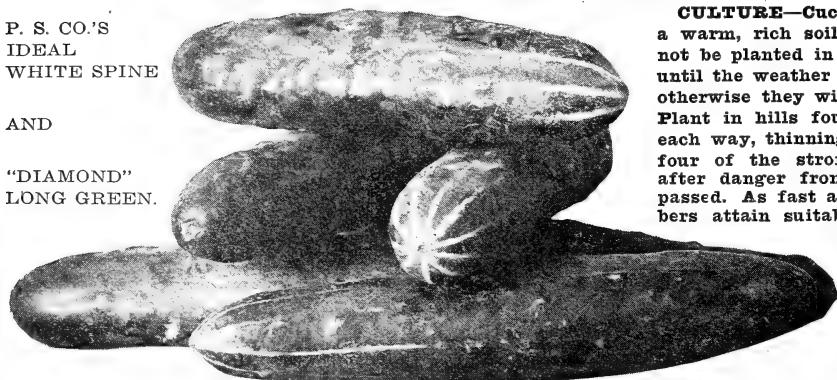
All sorts of Field Corn, 10c. per Packet; prices per 100 lbs. on request.

CUCUMBERS

P. S. CO.'S
IDEAL
WHITE SPINE

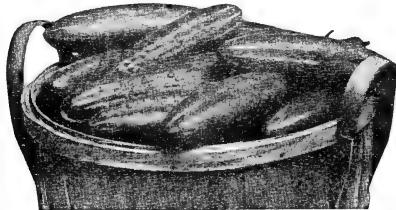
AND

"DIAMOND"
LONG GREEN.



CULTURE—Cucumbers need a warm, rich soil, and should not be planted in open ground until the weather is settled, as otherwise they will not thrive. Plant in hills four feet apart each way, thinning to three or four of the strongest plants, after danger from insects is passed. As fast as the cucumbers attain suitable size they should be taken from the vine, whether required for use or not, as their ripening soon destroys the vine's usefulness.

Our Fertilizer Book Gives Plant Food Value of All Fertilizers—Mailed Free



DAVIS PERFECT.

Mr. Davis is the originator of the Davis Wax Bean and the Grand Rapids Forcing Lettuce. His Cucumber is equally valuable.

P. S. CO.'S IDEAL WHITE SPINE.

Without exception the most uniform and symmetrical White Spine Cucumber, being long, smooth, and of a beautiful bright green color; crisp, tender, and of excellent flavor; very early and a heavy yielder.

Pkt., 10c.; oz., 15c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.50.

"THE DAVIS PERFECT" CUCUMBER.

The "Davis Perfect" is of perfect form, large size and of the finest color; is crisp, delicious and almost seedless.

The "Davis Perfect" is as handsome, grown outside, as any hothouse Cucumber.

Pkt., 10c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; lb., \$2.00

"DIAMOND" LONG GREEN.

The leading large variety. Fruit from ten to twelve inches long, dark green, crisp and tender. A good variety for slicing, and when ripe they are the best for sweet pickles. We offer our "Diamond Strain," they will grow long and uniform in shape.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.00.

BOSTON PICKLING OR GREEN PROLIFIC.

Color, bright green, and a great producer. The fruits average four to five inches in length when large enough for slicing, and are of excellent quality; but it is for producing medium sized pickles that this variety is so highly esteemed.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.25.

SHORT GREEN OR EARLY FRAME.

An excellent sort for both table use and pickling. Fruit straight, small at each end, bright green, with crisp, tender flesh. Comes into use a little later than the Early Cluster and keeps green a long time.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.00.

EARLY RUSSIAN.

Earliest and hardest. Very vigorous and productive. Fruit three to four inches long, thick, oval, pointed at each end, and covered with fine, small spines.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.00.

EARLY CLUSTER.

Fine, vigorous, producing the bulk of the crop near the root and in clusters. Fruit short, with uniformly thick end, dark green, but paler at blossom end. A very productive sort.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.00.

TELEGRAPH.

A standard forcing variety, very popular with gardeners. Fruit fourteen to sixteen inches long, of very fine quality. A sure and heavy cropper.

Pkt., 25c.

PEERLESS, OR EARLY WHITE SPINE.

One of the best sorts for table use, fruiting early and abundantly. Fruit uniformly straight and handsome; light green, with a few white spines.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.00.

CUMBERLAND PICKLING.

The vines are hardy, strong, and fruit very freely. The straight young fruits possess the distinctly roughened surface so much desired for small pickles. The large fruits average nine to ten inches in length, two and a half inches in diameter, with full rounded ends, and are of good quality for slicing.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.50.

GHERKIN FOR PICKLING.

A very small, oval, prickly variety, quite distinct from all others.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.

JAPANESE CLIMBING.

A useful variety for growing on a trellis or wire. The cucumbers are long, of a dark green color, white flesh, crisp, and of a good flavor.

Pkt., 10c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.

CELERIAC
PLANTS IN
SEASON

CELERIAC.

Celeriac or Turnip-Rooted Celery

LARGE SMOOTH PRAGUE.

An improved form of turnip-rooted Celery; round, smooth, with very few side roots. This is the largest variety and one of the very best.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.

Chicory

Extensively used to adulterate coffee and as a substitute for it. The culture is the same as for carrots. Dig at about the same time as carrots, wash, slice and dry by artificial heat. The blanched leaves are used by some for salad.

LARGE ROOTED, or COFFEE.

The best kind.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; 1b., 75c.

Endive

This is a hardy vegetable, cultivated principally for a winter salad. Sow from May until August for a succession of crops; tie the leaves closely together to blanch them.

GREEN CURLED.

Standard sort for fall and winter. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.

WHITE CURLED.

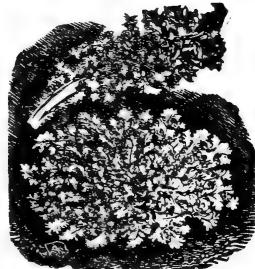
A beautiful variety, with curled, mossy leaves; for early use.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.

BROAD LEAVED BATAVIAN (Escarolle).

Has broad, thick leaves, which form a large, loose head.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.



ENDIVE

Egg Plant

Should be started in a hotbed and transplanted when the weather is settled and the ground thoroughly warm. They will thrive with the same treatment as that given the tomato.

EARLY LONG PURPLE.

The earliest and hardest; very productive; fruit from 6 to 10 inches long.

Pkt., 5c.; oz., 30c.; $\frac{1}{4}$ lb., 75c.

NEW YORK IMPROVED, LARGE PURPLE.

The leading market variety. Large, round, dark, excellent, and the most productive.

Pkt., 5c.; oz., 30c.; $\frac{1}{4}$ lb., \$1.00

BLACK PEKIN.

Oval round, of medium size, very dark, glossy and handsome.

Pkt., 5c.; oz., 30c.; $\frac{1}{4}$ lb., 80c.

NEW YORK IMPROVED.

GARLIC.

Used same as onions. Sets, per lb., 15c.; postpaid, 25c.

HORSE RADISH ROOTS.

For prices and description, see Plant Department.

Kohl Rabi

Hardy and of easy culture. Grown from plants the same as cabbage. The Kohl Rabi is a vegetable intermediate between the cabbage and turnip, and combines the flavor of both. The edible part is a turnip-shaped bulb formed by the swelling of the stem. Kohl Rabi is far superior to cabbage or turnips in the delicacy of its flavor, and is a splendid addition to every garden. It should be eaten before growth ceases.

EARLY WHITE VIENNA.

Very early; bulb white; best table variety. Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.

EARLY PURPLE VIENNA.

Same as above, except in color, which is purple.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.

KALE—See Page 20.



KOHL RABI



LETTUCE

LETTUCE is so extensively grown that cultural directions seem unnecessary, but we offer a few simple suggestions that may save a later disappointment, as any failure is generally blamed to the seed. This should not be, as Lettuce, like many other vegetables, requires very rich soil, plenty of water, a cool growing season and intense culture to produce the best results. If the earliest varieties are planted out in the spring and the weather turns dry and hot, they will run up to seed without heading. The same seed sown in the fall or with cooler growing weather would develop perfectly. At a temperature of 40 degrees or lower lettuce will not thrive. At 65 degrees and upward it has a tendency to run up and not head properly. For outside planting sow the seed in shallow drills from one to two ounces to the 100 yards. An ounce will produce 3,000 plants. Four pounds should plant an acre. Lettuce requires forty to sixty days to mature from time of planting.

P. S. CO., S "DIAMOND EARLY."

Earliest, largest, most solid, and surest heading of the early head varieties. The fine, large heads are tightly folded, having few outer leaves, which are of a light green color, the inner ones being blanched to a beautiful buttery yellow.

"Diamond Early" is the ideal lettuce for early heads or successive planting, and its rich flavor and quality is unsurpassed. We want you to plant "Diamond Early" and tell us what you think of it.

Pkt., 10c.; oz., 25c.; 1/4 lb., 75c.; lb., \$2.50.

PORTLAND SEED COMPANY'S NEW CRISPETTE.

Our "New Crispette" is a beautiful Lettuce, the quality of which is simply perfect. The large, curly leaves, which cover the outside of the solid heads, are of a bright, light green. The unusual solidity of the heads is insured by the large, white, main ribs of the leaves, each of which, curving strongly toward the center, makes it impossible for the leaves to open outward and expose the center, which will always be found crisp, tender, sweet and melting. It matters not whether grown to head in the early spring or the hottest days of summer, the leaves are always crisp and tender. (See cut.)

Pkt., 10c.; oz., 25c.; 1/4 lb., 60c.

SIMPSON'S EARLY CURLED.

A leading market variety used for very early planting and forcing. Forms a dense mass of finely curled and wrinkled leaves that are excellent and tender, and do not wilt readily.

Pkt., 5c.; oz., 15c.; 1/4 lb., 35c.; lb., \$1.00.

BLACK SEEDED SIMPSON.

Forms a close, compact mass of curly leaves of a yellowish green.

Pkt., 5c.; oz., 15c.; 1/4 lb., 35c.; lb., \$1.00.

ALL SEASONS.

A valuable new "Butter Head" Lettuce; the best main crop variety, as its large heads continue to grow for two or three weeks after they are ready to use, and are very slow to seed. The heads are flattened on the top and very broad, often measuring 8 inches across.

"All Seasons" is headed up ready for use in less than ten weeks from planting. Color of outer leaves is a bright green, with inner leaves blanched a rich golden yellow; very crisp and of excellent flavor. Be sure to try "All Seasons."

Pkt., 10c.; oz., 25c.; 1/4 lb., 75c.; lb., \$2.50.

MAY KING.

A grand new Butter Lettuce.

A large growing, smooth leaved, richly flavored sort, which we believe to be the best of all smooth leaved Lettuces. Plant, light green, with round leaves, which form into a very solid, compact, round head; stands long time without running to seed. Leaves very thick, folded or puckered at the base, inner ones blanch to a rich, golden yellow. **Exceedingly rich, tender and buttery.** Fine for open ground or forcing. For succession plant in spring, then in August and again in September.

Pkt., 5c.; oz., 15c.; 1/4 lb., 40c.

EARLY TENNIS BALL.

The plant is small, of rapid growth, and should be used as soon as large enough, as it quickly runs to seed. Leaves dark green, thick and crisp. One of the best for growing under cover, and for forcing.

Pkt., 5c.; oz., 15c.; 1/4 lb., 40c.; lb., \$1.25.

LARGE DRUMHEAD.

One of the largest heading kinds, but the heads are not so solid as the Hanson or Deacon.

Pkt., 5c.; oz., 15c.; 1/4 lb., 35c.; lb., \$1.00.

Gardeners, write for prices on large orders.

LETTUCE—Continued

EARLY PRIZE HEAD.

Standard sort; one of the best thin leaved, clustering varieties. The very large leaves are savoyed or crimped, bright green, tinged with red, and are exceedingly tender, crisp and sweet, forming a large, loose head. One of the best for the garden, but not good to ship long distances.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.00.

GRAND RAPIDS.

For Early Forcing.

As a Lettuce for greenhouse forcing this variety undoubtedly stands at the head of the list. Of quick growth, and stands for some days after being fit to cut. The plant is upright and forms a loose head or cluster of large, light yellowish green leaves, slightly crimped and blistered, rather thin, good flavor, crisp and tender. It will stand shipping better than most curled sorts.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.25.

GRAND RAPIDS
LETTUCE

**"Gardening for Profit"
A Book You Need**

HENDERSON'S
IMMENSITY.

Luxuriant grower, consequently tender, sweet, crisp.

Of the largest size and finest quality, even the outer leaves being tender. Slow to run to seed and maintains that crispness of texture and sweeteness of flavor so much desired, and has heat resisting qualities which carry it safely through the hot summer. It is not early, but is absolutely reliable for a late crop at a season when other varieties are hard to procure.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 50c.

BROWN DUTCH.

Forms a large, solid head, sweet, tender and of good flavor. Outer leaves are tinged with brown. Very hardy.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.25.

DEACON.

Heads very solid and of excellent flavor, remains in condition for use as long as any variety in cultivation. Plant medium sized, with very few outers leaves, which are deep green and very thick, while the inner ones blanch to a bright yellow and are exceedingly well flavored, crisp and tender. This is certainly one of the best varieties for summer use.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.10.

"Golden West" There's Nothing Like It

Nahcotta, Wash., April 11, 1910.

Portland Seed Co.

We raise fine Golden West Corn less than $\frac{1}{4}$ of a mile from the breakers on the Loomis Farm. Come and see our garden when down at the beach for the summer.



HANSON

HANSON.
The Leading Head Lettuce.

(Improved Hard-Heading Stock.)

One of the very best. Heads green outside and white inside; grow to a remarkable size, very solid, and is deliciously sweet, crisp and tender. It withstands the hot sun well.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.25.

WHITE PARIS COS.

A distinct variety, forming oval, upright heads, largest near the top. It is hard, tender and crisp, and does not run to seed so quickly as other Cos varieties.

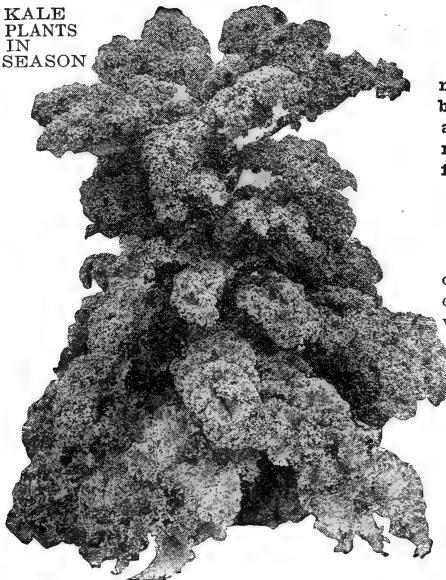
Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.10.

Port Townsend, Wash., April 8, 1910.

Portland Seed Co.:

The Golden West Corn is the only kind that does well here at all, and it certainly is fine. I don't want to plant anything else this year as I have always done before.

KALE
PLANTS
IN
SEASON



EMERALD ISLE (From Photograph).

KALE

Kale, or Borecole, is a kind of cabbage that does not form a close and solid head, but a cluster of beautifully curled or wrinkled leaves that are tender and of excellent flavor. It requires the same treatment as cabbage; is very hardy, being improved by frost.

P. S. CO.'S EMERALD ISLE.

Finest Kale in the World.

This is really the handsomest Kale that has ever come under our notice, and is entirely distinct from other strains; very hardy, of medium height, and very vigorous, throwing out new shoots as fast as the leaves are used, and will furnish excellent greens all winter. The closely curled, handsome leaves are most attractive and of fine flavor. A fine exhibition plant.

Pkt., 10c.; oz., 15c.; $\frac{1}{4}$ lb., 30c.

TALL GREEN CURLED SCOTCH.

Grows about two feet high; leaves dark green, curled and wrinkled; very hardy and is improved by a light frost.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.

THOUSAND HEADED. See Field Seeds.

HALF DWARF MOSS CURLED. Medium sized leaves, nicely curled.....5c. **DWARF GREEN CURLED.** Leaves beautifully curled and bright green....5c.

Pkt. Oz. $\frac{1}{4}$ Lb.
10c. 30c.

10c. 25c.



LARGE ROUEN
LEEK.

LEEK

The Leek belongs to the onion family. Prized for soups. Cultivation similar to that of onions, but hill up about the neck to blanch it.

LARGE ROUEN, or AMERICAN FLAG.

A large, favorite American sort.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.; 1lb., \$1.25.

MUSTARD

Used alone as "greens," or with cress as salad. Sow any time in the spring, in rows, and thin out as necessary.

SOUTHERN GIANT CURLED. We offer a fine strain of the true curled leaf.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; 1lb., 60c.

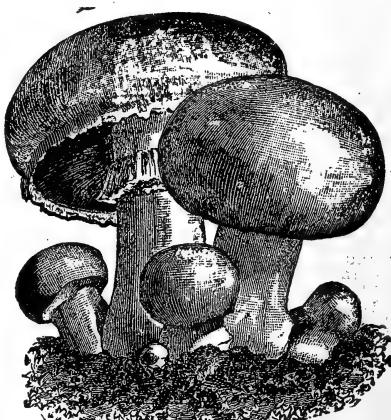
WHITE ENGLISH. Leaves mild, tender when young; seeds yellow. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; 1lb., 40c.

Mushroom Spawn

With intelligent care and good spawn, Mushrooms can be made to pay handsomely. They can be successfully grown in a dry cellar, under the benches of a greenhouse, or in sheds, where the temperature can be kept from 50 to 60 degrees through the winter. Our free pamphlet gives general instruction.

LAMBERT'S PURE CULTURE.

A new kind of spawn, without a doubt the best; much superior to the common English. It comes in bricks, weighing about 20 ounces. These are broken up into pieces the size of a walnut and put into the bed one foot apart each way. Price, per brick, 25c. postpaid, 35c.; by express, not prepaid. 5 bricks, \$1.00.



MUSKMELONS

CULTURE.

Plant in hills four to six feet apart each way, after danger of frost is past and ground is warm; enrich with well-rotted manure and plant the seeds just under the surface, not too deep. One ounce to fifty hills; two to three pounds per acre.

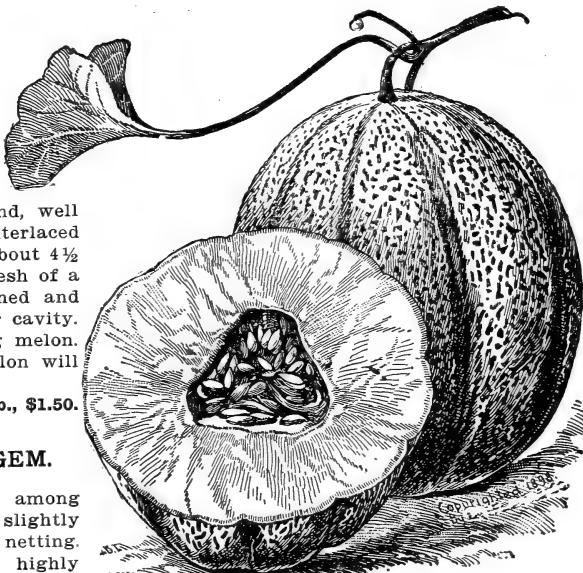
Melons thrive best on warm, light soils, but good crops are obtained on heavy ground if it is rich and well drained; in cultivating, hill up by drawing the soil toward the plant. Use Bug Death, lime, slug shot or land plaster for destroying insects.

Burrell Gem

The Perfect Melon for Market or Home Gardens

Burrell's Gem has a tough, thin rind, well arched ribs, covered with a closely interlaced gray netting; shape elongated, being about $4\frac{1}{2}$ inches in diameter by 6 inches long, flesh of a reddish orange, very thick, fine grained and spicy, seed held firmly in a triangular cavity. This is the secret of a good shipping melon. If the seeds shake loose easily a melon will quickly decay.

Pkt., 10c.; oz., 20c.; $\frac{1}{4}$ lb., 50c.; 1b., \$1.50.



ROCKY FORD OR NETTED GEM.

The most popular and best seller among Muskmelons. The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh thick, green, very sweet and highly flavored. The fruit is wonderfully uniform in shape and quality. Grown largely in Colorado and shipped in carload lots all over the country. The favorite with market gardeners everywhere.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; 1b., \$1.00.

PAUL ROSE OR PETOSKEY.

Created by a cross between the Netted Gem and Osage; fruit oval, about five inches in diameter, rich orange in color, sweet and highly flavored.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; 1b., \$1.00.

CASSABA.

This is an excellent melon and much sought after. Large, rather oblong; well ribbed; skin thin, and of greenish yellow color; flesh two to three inches thick, delicious and melting. None better; matures late; keeps well.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 50c.; 1b., \$1.60.

WELL-KNOWN AND POPULAR VARIETIES.

	Pkt.	Oz.	$\frac{1}{4}$ Lb.	Lb.
JENNY LIND. Extra early, flesh green, fine flavor	5c.	15c.	40c.	\$1.25
EXTRA EARLY HACKENSACK. Flesh green, delicious, juicy and sweet; medium size	5c.	15c.	40c.	1.25
LARGE YELLOW CANTALOUPES. Early and productive; flesh salmon color, rich, sweet	5c.	15c.	35c.	1.00

Our. No. 4 Fruit—Is the best Fertilizer for melons. Booklet Free.

WATERMELON



HALBERT HONEY.

THE NEW HALBERT HONEY WATERMELON.

This superb Melon is a great improvement over the well-known Kleckley Sweets, as it fully equals it in delicious flavor and crispness, is more uniform in outline, darker in color, more vigorous and productive, and will ripen Melons perfectly in the cooler sections where other varieties fail. The average length is eighteen to twenty inches, both ends being blunt and fully rounded out. The rich, dark glossy green, the thin rind and the bright crimson center make the new Halbert Honey the most attractive Watermelon. We want you to try it and tell us what you think of it.

Pkt., 10c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.25.

KLECKLEY'S SWEET, or MONTE CRISTO.

A splendid sort for home use or near markets. Vine vigorous and productive; fruit of medium size; oval; color dark, mottled green in two shades, forming indistinct stripes. Flesh, a beautiful bright rich red; exceedingly sweet and tender.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., 85c.

• FORDHOOK EARLY. •

A fine, extra early melon. Fruit of good size; skin dark green; flesh bright and crisp, sweet and good quality; rind thin, but tough. Good shipper.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., 85c.

SWEET HEART.

This melon has become very popular as a shipping melon. Vine vigorous and productive, ripening its fruit early. Fruit large, oval, very heavy, uniformly mottled dark and very light green; rind thin, but firm; flesh bright red, firm, solid, but very tender, melting and sweet. Fruit retains its good quality for a long time after ripening.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

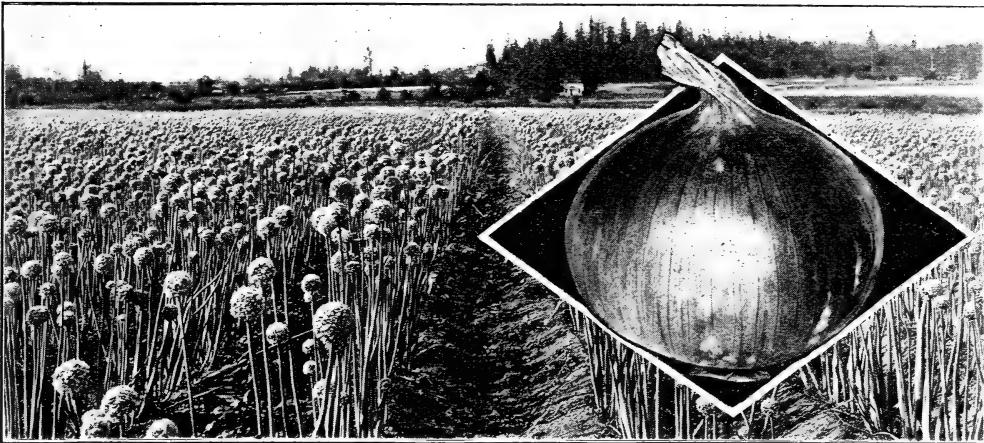
WELL-KNOWN AND STANDARD VARIETIES.

	Pkt.	Oz.	$\frac{1}{4}$ Lb.	Lb.
DARK ICING. Early, round, solid, with thin, dark green skin; quality				
			of superb	
			5c.	10c. 25c. 75c.
FERRY'S ICEBERG. A good shipper. Flesh rich, tender and sweet; color dark green				
			5c.	10c. 20c. 65c.
GRAY MONARCH, or Long White Icing. Very large; long; crimson flesh			5c.	10c. 20c. 65c.
FLORIDA FAVORITE. Large and long; rind firm; flesh deep red			5c.	10c. 25c. 75c.
KENTUCKY WONDER. Oblong; flesh scarlet, crisp, tender, rich			5c.	10c. 25c. 75c.
PHINNEY'S EARLY. Early, hardy; flesh pink, very sweet, tender and crisp	5c.	10c.	25c.	75c.
GYPSY, or Georgia Rattlesnake. Oblong, dark and striped; bright red flesh	5c.	10c.	25c.	75c.
CITRON. (Red or Green Seeded.) Round and handsome; for preserving only	5c.	10c.	25c.	75c.

Pure Seeds

ONIONS

Highest Tests



ONE OF OUR SEED FIELDS OF "DIAMOND" STRAIN. TRUE OREGON YELLOW DANVERS.

WE ARE large growers of Onion Seeds and Sets, and for years have been specializing on varieties that attain their greatest perfection in Oregon. We believe our **OREGON YELLOW DANVERS** to be the finest type of Danver Onion ever offered, and recommend it to all commercial growers.

The newer sorts, "AILSA CRAIG," from England; "WHITE" and "RED BERMUDA" and "CRYSTAL WAX," from Teneriffe, Bermuda, are valuable and desirable Onions, now in great demand. Be sure to try them.

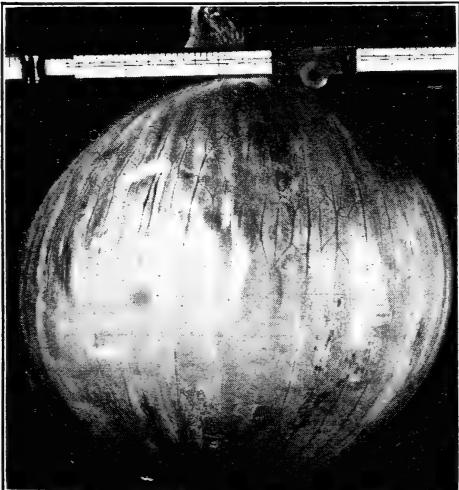
CULTURE—The Onion thrives best in a rather deep, rich, loamy soil, and unlike most vegetables, succeeds well when cultivated on the same ground for successive years. The best culture requires that the ground should be deeply dug and heavily manured with well rotted manure a season or two previously. Sow as soon as ground can be prepared in the spring.

Portland Seed Co.'s Oregon Yellow Danvers

This is the variety generally planted in the Northwest, particularly in Oregon. The largest crops of onions and the best keepers, bringing the highest prices in the Oregon and California markets are the Oregon Yellow Danvers. The bulbs are uniformly large, of a half-globe in shape, with small necks, and as a market or table onion cannot be excelled.

Our seed is grown specially for us by the best onion seed growers in Oregon. No onion grower can afford to plant anything inferior when such seed can be obtained.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; 1b., \$1.75.



AILSA CRAIG

Ailsa Craig

This fine new onion comes to us from the English growers and has won in their shows for years over all varieties; for either early or late sowing it has no equal. For best results it should be started inside early and transplanted. This treatment gives wonderful results in size and yield; 800 to 1000 bushels per acre can be grown in this way.

AILSA CRAIG is large, globe shape, straw colored, having no rival in form, size or weight. The quality is superb, being mild, crisp and delicious. The attractive appearance, delicate flavor and large size always make Ailsa Craig in great demand.

Pkt., 10c.; oz., 35c.; $\frac{1}{4}$ lb., \$1.10.



CRYSTAL WAX.

A pure white, extremely early, flat onion of the Bermuda type; very sweet and delicious and so clear and waxy that it appears translucent. We offer the true stock, importing the seed direct from the Canary Islands.

Pkt., 5c.; oz., 40c.; $\frac{1}{4}$ lb., \$1.25.

BE SURE it's an "IRON KING" the ONE BEST Onion Seed Drill.

ONIONS—Continued

**White Bermuda**

A beautiful market variety for fancy trade; color a delicate pinkish straw; flavor very mild.

The finest strains come to us from **Teneriffe—Canary Islands**.

White Bermuda matures in less than six months from time of sowing, and we believe it to be a valuable early onion for our Oregon growers. Try it.

Pkt., 5c.; oz., 25c.; $\frac{1}{4}$ lb., 75c.; lb., \$2.60.

Red Bermuda

Identical with the White except in color, which is a pale, translucent red. This is the ideal early onion wherever the red variety is preferred.

Pkt., 5c.; oz., 25c.; $\frac{1}{4}$ lb., 75c.; lb., \$2.60.

Large Red Wetherfield

A standard variety, one of the most productive kinds, even in poor soil. Its good keeping qualities render it one of the best for shipping.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; lb., \$1.75.

Extra Early Red Flat

The First Red Onion to Ripen.

A medium-sized, flat variety; comes into use nearly two weeks earlier than the Large Red Wethersfield.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; lb., \$2.00.

Well Known and Popular Onions

	Pkt.	Oz.	$\frac{1}{4}$ lb.	Lb.
YELLOW FLAT DANVERS. Largely planted. Flesh fine grained; mild; white; good keeper		5c.	20c.	50c. \$1.40
EXTRA EARLY BARLETTA. A small, pure white, mild onion; fine for pickles		5c.	25c.	75c. 2.50
WHITE GLOBE. Flesh very white, fine rich and sweet; fine keeper.....	5c.	35c.	90c.	3.00
GIANT BOCCA. Large, globe-shaped; skin reddish-brown; flesh mild, sweet flavored	5c.	25c.	70c.	2.25
MAMMOTH SILVER KING. Very large and attractive; skin white; flesh fine grained and mild	5c.	25c.	70c.	2.25
QUEEN. If sown thickly, produces small, very firm bulbs, the best of all for pickling; if given more room, matures an excellent onion, that will keep all winter	5c.	25c.	70c.	2.25

Onion Sets**BOTTOM ONION SETS.**

Small onions grown from seed that has been sown too thickly to attain a large size. The small onions (about $\frac{1}{2}$ inch in diameter) thus obtained are planted out and are ready in a short time to pull as green onions for the table or bunched for the market. If left to stand they make ripe onions of the best quality, and come to maturity some six weeks earlier than a crop grown directly from the seed.

Per lb., 25c.

TOP SETS.

Produced in clusters.

Per lb., 30c.

SHALLOTS.

Valuable for bunching or for an early crop. The smallest sets make fine bulbs of good size, while the larger ones produce a cluster of small to medium-sized bulbs. Light brown skin; mild, white flesh.

Per lb., 30c.

Okra or Gumbo**IMPROVED DWARF GREEN.**

Very early, with long, green, slender pods.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 60c.

WHITE VELVET.

The pods are smooth or very slightly ribbed. large; remain tender a long time.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 60c.

OUR NO. 10 FERTILIZER for ONIONS. On "Beaverdam" add a little **Potash** and **Phosphoric**

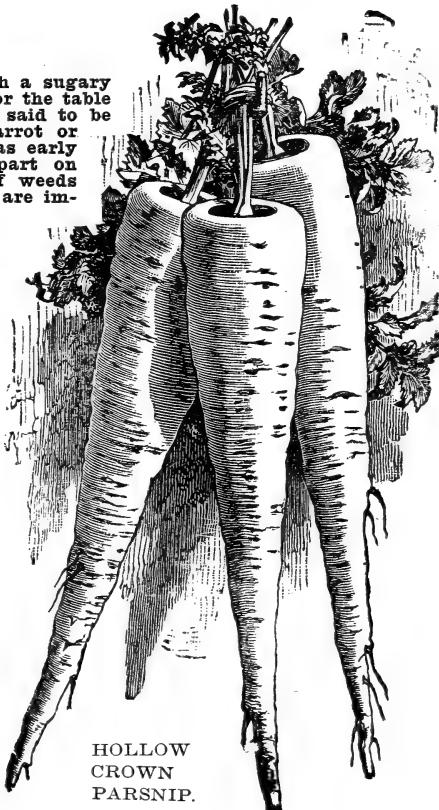
PARSNIPS

The Parsnip is nutritious and wholesome, with a sugary sweetness peculiar to itself, and is superior both for the table and stock feeding. It yields a large crop, and is said to be more valuable for dairy cows than either the carrot or turnip. As the seed germinates very slowly, sow as early in spring as possible in drills fifteen inches apart on deeply cultivated, rich, loamy soil. Keep clear of weeds and thin to three or four inches apart. The roots are improved by freezing.

LONG WHITE DUTCH, or SUGAR.

Root very long, white, smooth, tender, sugary, and of most excellent flavor. Very hardy; will keep through winter without protection.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.



HOLLOW
CROWN
PARSNIP.

Parsley

Very useful for flavoring soups, meats, and for garnishing. The green leaves are used for flavoring or they may be dried crisp, rubbed to a powder, and kept in bottles until needed.

CHAMPION MOSS CURLED.

A compact growing, finely cut and much curled variety of a bright green color.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

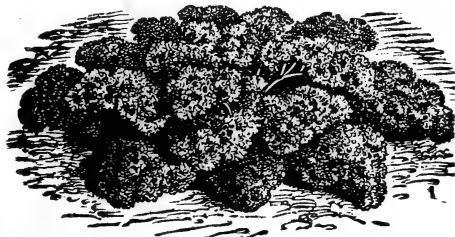


TRIPLE
CURLED
PARSLEY

FINE TRIPLE-CURLED, or MYATT'S GARNISHING.

A fine, free growing, but not large variety. The plants bear a great number of leaves, which are so abundant and so finely curled that they resemble a bunch of moss.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.



TURNIP-ROOTED, or HAMBURG.

The root, which resembles a small turnip, is the edible portion of this variety. Extensively grown and used for flavoring soups, etc.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

Try "Oregon Pole Lima"
page 5.

Pepper

Sow the seeds early in hotbeds; or later, when the weather becomes warm, in open beds. When two or three inches high, transplant to a warm, mellow soil, in rows eighteen inches apart and a foot apart in the rows. Guano and hen manure are excellent fertilizers and will greatly increase the yield.

Pkt. Oz. $\frac{1}{4}$ lb.

RUBY KING. Very large, sweet and mild; bright scarlet.. 5c. 25c. 75c.

LARGE BELL or BULL NOSE. Large, mild, thick fleshed

variety. One of the best for stuffed pickles..... 5c. 25c. 75c.

GOLDEN DAWN. Bright, golden yellow; very productive;

entirely free from fiery flavor..... 5c. 25c. 75c.

SWEET SPANISH or MOUNTAIN. Of the largest size,

bright scarlet. Excellent for pickling and stuffing..... 5c. 25c. 75c.

CAYENNE. Pods long; bright red; very pungent and

used very largely with pickles when green..... 5c. 25c. 75c.

CHILLI. Pods small and pointed; brilliant scarlet; very

pungent when ripe 5c. 25c. 75c.



SELECT STOCK

GARDEN PEAS

HAND PICKED

 We pay postage on Peas in 10c. packets only. If ordering by mail in larger quantities, add 10c. per pound for postage.

THE past season has been a very unfavorable one for Peas, and good stocks are scarce and high in all parts of the country; but as we grow our own and were fortunate in harvesting a fair crop we will share this good fortune with our customers and not advance prices until absolutely necessary. All orders will be filled as long as stock lasts. So ORDER YOUR PEAS EARLY and avoid disappointment and advance in price later.

The field of peas shown on this Catalog cover is our seed field of "Magnificent," one of the best yielding, most delicious and satisfactory of the medium early peas. All varieties we offer have been grown here by ourselves and we consider them the best of their kinds.



Three Extra Early Peas Unique

OUR NEW EXTRA EARLY DWARF PEA.

Quality and sweetness unsurpassed; yields enormously; has largest and longest pods of any Extra Early Dwarf Pea, and they are filled clear to the ends with rich, fine flavored Peas, as sweet as sugar.

Vines are only eight to ten inches high, and peas are ready for table in sixty days from date of planting. Mature evenly, and are all gone in less than ten days—a very valuable point for market gardeners.

"Unique" is hardy, vigorous, and the best early dwarf garden Pea ever grown. We urge our customers to give it a trial.

Pkt., 15c.; lb., 25c.

 P. S. Co.'s New First Early
For fall or earliest spring planting. The first early round Pea with the sweet flavor of the wrinkled varieties.

"First Early" resembles "Alaska" in habit of growth, the height being 24 to 30 inches, without branching. Pods are produced in great abundance, are very uniform, and contain six peas; mature very quickly and evenly, giving about three pickings, and for extreme earliness and productiveness far outclasses Alaska. "First Early" is the best early pea for fall planting, or for early succession. FIRST NEW EARL Our grower reports, "It fairly jumps out of the ground." Planted the same time as "American Wonder," was ready for table three weeks earlier.

Pkt., 15c.; lb., 25c.

ALASKA OR EARLIEST OF ALL.

 The standard extra early variety.

A smooth, blue pea, of even growth of the vine and extra early maturity. Vines two to three feet high, unbranched, bearing four to seven long pods, which are filled with medium-sized, bright green peas of excellent flavor. A great favorite with our market gardeners for fall and early spring planting.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.40.

Early Garden Peas

 Standard Varieties.

Edward VII

A Delicious New Early Pea of Great Merit.

The pods are well filled and as large as most late peas.

We introduced this grand variety from Europe and its popularity increases each season. Of all the Dwarf Early Peas King Edward VII produces the largest pods of the finest flavored peas in the greatest quantities.

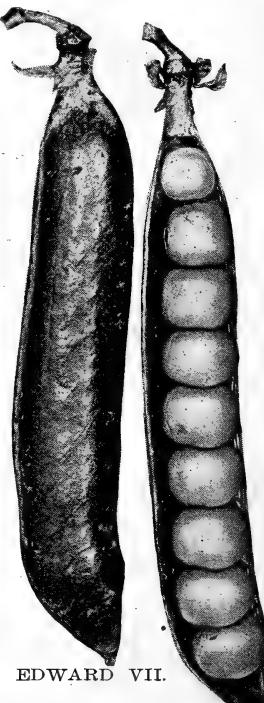
Pods resemble Stratagem in color and size and are remarkably well filled with deliciously flavored peas. Height, 15 inches. Try this grand new pea and we are sure you will be more than pleased.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.75.

"MAGNIFICENT."

South Prairie, Wash., April 9, 1910.

Portland Seed Co.: Gentlemen: You sent me a packet of peas several years ago and I have planted them every year since. They are what their name signifies, "Magnificent."



EDWARD VII.

PEAS—Continued

AMERICAN WONDER.

One of the most popular and best of the early wrinkled sorts. A great favorite for family use. Has stout, branching vines, covered with well-filled pods containing seven or eight large, exceedingly sweet, tender and well-flavored peas; height, 10 to 12 inches.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.65.

GRADUS.

This extra early, wrinkled pea bears pods of large size, and combines quality with earliness. It is very hardy; can be planted fully as early as the smooth peas; growth, vigorous and healthy; vines 2½ feet in height; very prolific. The quality and flavor are delicious, and the peas remain tender and sweet for a long time.

Pkt., 10c.; lb., 25c.; 10 lbs., \$1.85.

Portland Seed Co.'s Magnificent

We like "Magnificent" better every year. It is just what the name implies, a magnificent pea. (See cover illustration.) A robust grower, producing in astounding profusion large, handsome, deep green pods closely packed with luscious, tender sweet peas. A grand medium early pea for the home and market garden; bears through a long season. Height, two feet. You will not be disappointed in this new variety.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.75.

NOTT'S EXCELSIOR.

The most desirable sort for the market gardener, and unexcelled for the home garden. Very hardy. The pods contain from six to nine large peas, which are unusually fine flavored and tender.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.75.

PREMIUM GEM.

One of the earliest dwarf varieties, coming in a little later than the American Wonder; grows taller, much more productive and continues in bearing longer. The quality of the pea is very superior. Height, 15 inches.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.65.

Main Crop Varieties

P. S. CO.'S PERFECTION.

By careful selection of seed stock we have made this superb, wrinkled pea one of the great leaders. There is probably no better late variety now under general cultivation. It attains a height of about 2½ feet, and is esteemed for good quality and productiveness. The pods are long, handsome, and wonderfully well filled, and are produced in great abundance. The peas are of unusually large size and delicious flavor; eight to ten to the pod. Cannot be overpraised as a standard, medium or late sort for the table or canning or for market purposes.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.35.

IMPROVED DWARF TELEPHONE.

Our Own Select Strain.

Dwarf Telephone is the famous old Telephone without its long vines; of healthy, stocky growth; very productive; pods large, broad, straight and remarkably well filled with large, sweet peas of delicious flavor; very desirable. Eighteen to twenty inches high.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.75.

YORKSHIRE HERO.

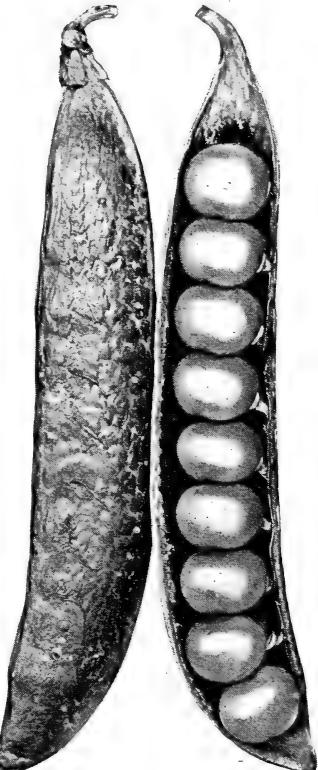
One of the largest, sweet, wrinkled kinds; vines strong and spreading; pods of good size and well filled; much in use, and has enjoyed a long popularity; medium late; bears a long time; height 2½ feet. Pkt., 10c.; lb., 20c.; 10 lbs., \$1.60.

TELEPHONE—TALL.

A Great Favorite With Our Market Gardeners.

Immensely productive, of the finest quality and excellent, sugary flavor, vines strong; the pods are of large size, filled with large, luscious peas; height, four feet.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.75.



DWARF TELEPHONE

PORTLAND SEED COMPANY'S

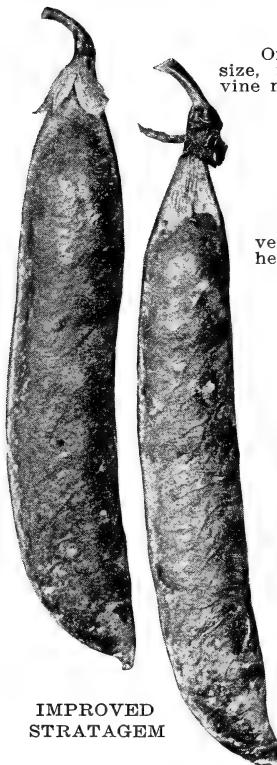
PEAS—Continued

 We pay Postage on 10c. Pkts. Only. If ordering by mail, add 10c. lb. to Catalog price.

Improved 'Stratagem'

One of the best of the large podded peas; the pods are of immense size, filled with large, dark green, wrinkled peas of the finest quality; vine medium height, but very stocky, with very broad, light green leaves, and bearing an abundance of large handsome pods.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.75.



IMPROVED
STRATAGEM

Champion of England

This fine old sort has a richness and flavor unexcelled. Peas are very large and tender; is heavy yielding; a vigorous, healthy grower; height 4 to 5 ft.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.60.

Sugar Peas**Edible Podded Peas.**

These peas have broad, fleshy pods that are broken and cooked like string beans. They are sweet and tender and of a luscious flavor, served with butter sauce.

Pkt. Lb.

DWARF GRAY SUGAR. Pods large, sweet and tender; vines dwarf; gray seeded 10c. 25c.

GIANT SUGAR. Taller and larger than above; gray seeded 10c. 25c.

MELTING SUGAR. Medium height; popular sort; white seeded 10c. 30c.

Potatoes for Seed

Taking an average from year to year, potatoes are about the best paying crop to grow; there is always a ready market for number one stock. We make a specialty of supplying seed potatoes of the best, heaviest yielding sorts, and our "DIAMOND QUALITY" seed potatoes grown by experts will produce the finest, largest crops of marketable potatoes. See page 49

For Ruta Baga**Rape, Dwarf Essex**

For description and price, see Farm Seeds.

Rhubarb or Pie Plant

CULTURE—Rhubarb succeeds best in deep, rich, somewhat retentive soil. The richer its condition and the deeper it is stirred the better. Sow in drills an inch deep and thin out the plants to six inches apart. In the fall transplant the young plants into very highly manured and deeply stirred soil, setting them four to six feet apart each way, and give a dressing of coarse manure each spring. The stalks should not be plucked until the second year and the plant never allowed to exhaust itself by running to seed.

VICTORIA, or MAMMOTH.

Very large; finest cooking variety.

Pkt., 5c.; oz., 15c.; 1/4 lb., 45c.; 1b., \$1.50.

RHUBARB ROOTS.

From October to June we can always supply one or two-year-old Rhubarb Roots. Customers wanting only a few dozen roots for home gardens will save much valuable time by ordering roots instead of seed. For prices, see Plant Department.



RHUBARB.

All Others Failed

Woodstock, Ore., Oct. 15th, 1910.

Portland Seed Co.:

Accept thanks for calling my attention to your Oregon Lima Beans. Had previously tried for years to grow lima beans in this locality; have tried all the well known varieties and failed. The beans you recommended grew fine and bore a bountiful crop. Next row to them was planted with other varieties of limas, few came up, and not one bloomed, but we had plenty of fine limas to eat all the season from the stock recommended by you.

PUMPKINS

CULTURE—Pumpkins will grow on any good farm land, but their size and quality will depend on the culture and fertility of the soil. Plant early in May, in hills six to eight feet apart. One pound of seed will plant about 300 hills. Care should be taken to keep the different varieties well apart, also away from other vining plants, as they mix and deteriorate very rapidly.

WINTER LUXURY.

The best flavored pie pumpkin grown; enormously productive; excellent keeper; medium size; color, golden-russet, finely netted; flesh, deep golden, sweet, tender and very thick; none better.

Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; 1b., 75c.

SWEET, or SUGAR.

A handsome and productive small pumpkin, ten to twelve inches in diameter; round flattened; skin, orange; flesh, deep yellow, fine grained and very sweet.

Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; 1b., 75c.



GIANT OF ALL.

TENNESSEE SWEET POTATO.

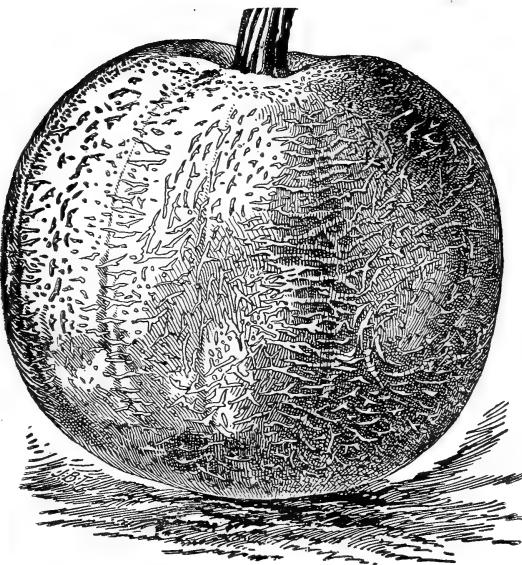
Pear shaped; flesh thick, cream white, fine grained and of excellent flavor.

Pkt., 5c.; oz., 10c.; 1/4 lb., 35c.; 1b., \$1.00.

LARGE YELLOW, or CONNECTICUT FIELD.

Large round; deep, glossy yellow. Vines vigorous and very productive; good keeper. Grown extensively for stock feeding.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; 1b., 50c.



WINTER LUXURY.

GIANT OF ALL.

A New Improved Variety and a Giant Among Mammoths.

This colossal Pumpkin is almost a globe in shape. The skin is of a beautiful, rich golden yellow; flesh firm, fine grained and deep yellow, sweet flavored, very thick and of excellent quality for so mammoth a variety. These Pumpkins attain an enormous size and will carry away prizes at your county fairs. See cut below from photograph, Pumpkin on a wash tub. **Large pkt., 15c.; oz., 25c.; 1/4 lb., 60c.**

MAMMOTH TOURS.

A productive French variety; grows to an enormous size.

Pkt., 5c.; oz., 10c.; 1/4 lb., 30c.; 1b., 90c.

LARGE SWEET CHEESE.

A popular variety. Fruit flattened; skin, mottled light green and yellow. Flesh, yellow, thick, tender; very nutritious and of excellent quality; a most productive variety.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; 1b., 60c.

True To Name "Diamond Quality"

Kent, Wash., April 20, 1910.

Portland Seed Co.:

Dear Sirs: The seeds I had from you last year were true to name and the best I ever had. Not a hill was missing and I got a big crop.

Glenns Ferry, Idaho,

April 15th, 1910.

Portland Seed Co.:

Gentlemen: I have received the seeds all right and those that I have planted came up fine. Thanking you for the extras, I am

RADISHES

To secure Radishes with crisp, tender flesh, grow them quickly in rich, loose soil, and gather before reaching full size. Our Radish Seed is strictly of the finest grade, being grown from carefully selected roots. Frequent planting should be made for succession, so that a supply of fresh, tender Radishes in the finest condition may be had at all times.

Four Best Radishes All Different and Distinct Types

 Special offer one packet each, of these four Radishes, 25c postpaid.



SPOTTED TRIUMPH.

This valuable and unique Radish of the turnip type is of good size and perfect form, very early and of remarkably quick growth with short tops. Its brilliant crimson markings shading to the white tip, give it a very attractive appearance, that makes it valuable as a market variety. Spotted Triumph is crisp, solid and of the finest quality.

Be sure to include it in your order.

Price: Pkt., 10c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.00.



EARLY CRIMSON GIANT.

The Largest Early Scarlet Turnip-Shaped Radish.

A new, early Radish, double the size of any of the early turnip-shaped type, but, notwithstanding its immense size, does not get hollow and pithy. The flesh is a sparkling white, solid, crisp, juicy and of the mildest flavor. The shape of the bulb varies from round to almost oval, but the bright, deep crimson color of the skin remains quite constant. Excellent for both forcing and open ground. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., \$1.00.

WHITE ICICLE.

This superb, new Radish is the finest and longest of the very early, pure white varieties. Planted in the spring, is ready for use in twenty to twenty-five days; their long, slender form and pure paper-white skin are most attractive when bunched for market. This Radish is not only crisp and tender when young, but also retains these qualities until the roots attain large size; is excellently adapted for forcing purposes or successive sowing in the open ground, and gives a continuous supply of tender, crisp Radishes for the table or market throughout the season.

Pkt., 10c.; oz., 15c.; $\frac{1}{4}$ lb., 30c.; lb., 85c.



ICICLE.

EARLY SNOWBALL.

A grand improvement on the White Box or White Turnip Radish which has been so popular for several years. It is handsome in shape, very early, and has but few leaves, is of a clear white color, solid, juicy, crisp, tender and unsurpassed in flavor. A good sort for forcing.

Pkt., 10c.; oz., 15c.; $\frac{1}{4}$ lb., 30c.; lb., 85c.

SPECIAL—One pkt. each of the above 4 sorts, 25c., postpaid.

Standard Varieties

NO. 1—EARLY LONG SCARLET.

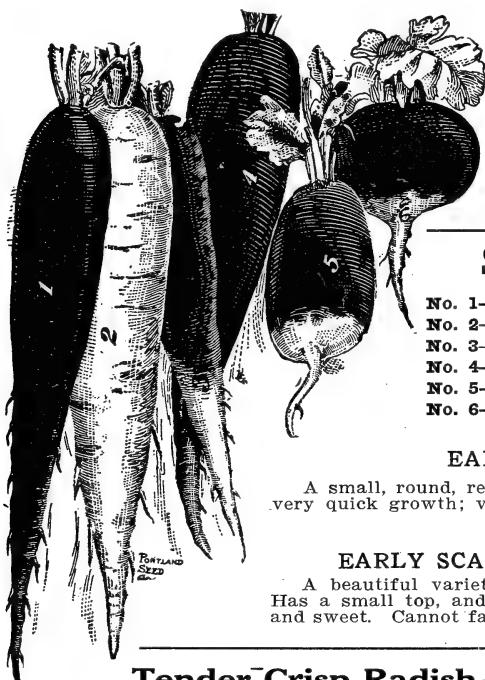
NO. 2—WHITE STRASBURG.

NO. 3—LONG SCARLET, WHITE TIPPED.

NO. 4—CHARTIER.

NO. 5—FRENCH BREAKFAST.

NO. 6—EARLY SCARLET TURNIP, WHITE TIPPED.



EARLY SCARLET TURNIP.

A small, round, red turnip-shaped Radish, with small top and of very quick growth; very early; rich color and crisp, tender flesh.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

EARLY SCARLET TURNIP, WHITE TIPPED.

A beautiful variety, deep scarlet with white tip. Very early. Has a small top, and may be planted closely. Flesh crisp, tender and sweet. Cannot fail to give satisfaction as a forcing Radish.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

Tender Crisp Radish—Delicious Lettuce

Charleston, Wash., June 29, 1910.

Portland Seed Co.:

We think your new Crispette Lettuce perfectly delicious. Also your "Spotted Triumph" Radish deserves mention; we have just had some for lunch. As tender and crisp as they are pretty, which is saying a whole lot.

RADISHES—Continued**FRENCH BREAKFAST, or HALF LONG.**

Medium size, quick growth, crisp and tender; lower end and taproot white.

Pkt., 5c.; **oz.**, 10c.; $\frac{1}{4}$ **lb.**, 20c.; **lb.**, 60c.

WHITE STRASBURG.

One of the best of the large summer sorts. It covers a long season, as it is good when quite small. The roots are long, very white, crisp and tender.

Pkt., 5c.; **oz.**, 10c.; $\frac{1}{4}$ **lb.**, 25c.; **lb.**, 70c.

IMPROVED CHARTIER.

Roots long, tapering, and attaining a very large size. Of rapid growth; remains crisp and tender till fully grown. Color, scarlet above, shading into white at the tip. Flesh white and mild flavored.

Pkt., 5c.; **oz.**, 10c.; $\frac{1}{4}$ **lb.**, 20c.; **lb.**, 60c.

CALIFORNIA MAMMOTH WHITE CHINA.

This is the largest of all Radishes. Roots grow ten to twelve inches long and are solid, tender and crisp. Keeps well through winter.

Pkt., 5c.; **oz.**, 10c.; $\frac{1}{4}$ **lb.**, 25c.; **lb.**, 90c.

BLACK SPANISH LONG—Standard winter sort, has good flavor, and keeps well.

Price: **Pkt.**, 5c.; **oz.**, 10c.; $\frac{1}{4}$ **lb.**, 25c.; **lb.**, 75c.

Black Spanish**CHINA ROSE WINTER.**

One of the best fall and winter varieties; a favorite with market gardeners; bright rose color; flesh white, firm and of superior quality.

Pkt., 5c.; **oz.**, 10c.; $\frac{1}{4}$ **lb.**, 25c.; **lb.**, 90c.

SPINACH

This is an important gardeners' crop, of easy culture. For spring and summer use, sow either broadcast or in drills one foot apart and one inch deep, as early as the ground can be worked, and every two weeks for a succession.

IMPROVED THICK LEAVED.

Variety which grows very rapidly, forming a cluster of large, very thick, slightly savoyed leaves of fine color, and quality when cooked. Best for market gardeners.

Pkt., 5c.; **oz.**, 10c.; $\frac{1}{4}$ **lb.**, 20c.; **lb.**, 40c.

FOUR GOOD SORTS ALL AT ONE PRICE

Pkt., 5c.; **oz.**, 10c.; $\frac{1}{4}$ **lb.**, 20c.; **lb.**, 40c.

Victoria. Leaves large, tender and of good quality; good market sort.

Prickly Winter. Hardest variety; may be sown in the fall; seed prickly; leaves long, pointed, thick and succulent.

 Gardeners get special prices; state amount wanted.



Long Standing. An improved variety for general use; slow going to seed.

Savoy Leaved. Very early; of upright growth; leaves pointed. Plant in the autumn for spring use; grows quickly.

SALSIFY OR VEGETABLE OYSTER

Salsify is a nutritious and wholesome vegetable, having the appearance of a small parsnip; in flavor closely resembling oysters, for which it is, in that respect, a good substitute. It is rapidly coming into more general use. Sow early in spring, in drills a foot apart, and when two or three inches high thin out to three or four inches. Its general culture is the same as that recommended for carrots. The roots are perfectly hardy and may remain in the ground during winter, or may be stored in dry earth or sand.

MAMMOTH SANDWICH ISLAND.

The leading variety; produces a large crop of straight, smooth roots.

Pkt., 5c.; **oz.**, 20c.; $\frac{1}{4}$ **lb.**, 50c.; **lb.**, \$1.75c.

LARGE WHITE.

An early kind; tender and excellent.

Pkt., 5c.; **oz.**, 20c.; $\frac{1}{4}$ **lb.**, 40c.; **lb.**, \$1.50.

 For Premiums See Inside Front Cover.

SQUASH

CULTURE—The plants are very tender and sensitive to cold, and planting must be delayed until settled warm weather. The general principles of culture are the same as those given for cucumbers and melons, but squash is less particular as to soil. The summer varieties should be planted four to six feet apart each way, and the winter sorts eight to ten feet. Three plants are sufficient to a hill.

Summer Varieties



MAMMOTH WHITE BUSH SCALLOP.

The best summer sort for the market; very productive and of good size.
Pkt., 5c.; **oz.**, 10c.; $\frac{1}{4}$ **lb.**, 25c.; **lb.**, 85c.



EARLY YELLOW MAMMOTH BUSH SCALLOP

An early, flat, scallop-shaped variety; color yellow; flesh pale yellow and well flavored; very productive.
Pkt., 5c.; **oz.**, 10c.; $\frac{1}{4}$ **lb.**, 25c.; **lb.**, 85c.

MAMMOTH SUMMER CROOKNECK.

Early, prolific, solid, curved neck; skin yellow, thin, hard and warty; flesh tender and of good quality. Twice as large as the ordinary Crookneck and several days earlier.
Pkt., 5c.; **oz.**, 10c.; $\frac{1}{4}$ **lb.**, 30c.; **lb.**, 90c.

WHITE SUMMER CROOKNECK.

Similar to the Yellow Crookneck, but of a beautiful ivory white and unsurpassed quality.
Pkt., 5c.; **oz.**, 10c.; $\frac{1}{4}$ **lb.**, 30c.; **lb.**, 90c.

ENGLISH VEGETABLE MARROW.

Oblong, dull yellow skin, very prolific and of finest table quality. **Pkt.**, 5c.; **oz.**, 10c.; $\frac{1}{4}$ **lb.**, 25c.; **lb.**, 85c.

FORDHOOKE.

Oblong in shape, eight to ten inches long, with thin, yellowish skin, slightly ridged. One of the finest summer Squashes, and if left to ripen makes a splendid winter sort.
Pkt., 5c.; **oz.**, 15c.; $\frac{1}{4}$ **lb.**, 40c.; **lb.**, \$1.25.

Winter Varieties

TRUE HUBBARD.

The best seller and most popular variety on our list. Rind dark green, warty and very hard. Flesh light orange, very dry, sweet and rich flavored. Has no superior. Keeps perfectly through the winter.
Pkt., 5c.; **oz.**, 10c.; $\frac{1}{4}$ **lb.**, 30c.; **lb.**, \$1.00.

NEW DELICIOUS.

This new fall and winter Squash resembles the old Hubbard; average weight is between five and ten pounds. Seed cavity small; flesh exceedingly thick, compact, fine grained; color, golden orange. The flesh is meaty, granulated, tender, and almost of mealy dryness, cooking sweet and rich, whether steamed, baked, boiled or made into pies.
Pkt., 10c.; **oz.**, 15c.; $\frac{1}{4}$ **lb.**, 50c.; **lb.**, \$1.50.

GOLDEN HUBBARD.

The same in size, shape and quality as the well-known Hubbard Squash, except that it is a bright red or golden color, and somewhat earlier. It is also a long keeper. One of the very best fall and winter sorts yet introduced. **Maturing before the frosts; is vigorous and wonderfully productive.**
In flavor it has no equal.

Pkt., 5c.; **oz.**, 10c.; $\frac{1}{4}$ **lb.**, 30c.; **lb.**, \$1.00.

BOSTON MARROW.

Skin yellowish, very thin; flesh dry and fine grained; of unsurpassed flavor.
Pkt., 5c.; **oz.**, 10c.; $\frac{1}{4}$ **lb.**, 25c.; **lb.**, 75c.

SIBLEY, or PIKE'S PEAK.

Shell smooth, thin and of a pale green color; the flesh is thick, solid, deep orange color; very dry, fine grained and delicate flavor.
Pkt., 5c.; **oz.**, 10c.; $\frac{1}{4}$ **lb.**, 30c.; **lb.**, \$1.00.

MAMMOTH CHILI.

The largest of all Squashes, growing to an enormous size, often weighing over 200 pounds, while its rich, fine flavored flesh insures its value for all purposes. Its size makes it valuable for stock feeding.
Pkt., 5c.; **oz.**, 15c.; $\frac{1}{4}$ **lb.**, 40c.; **lb.**, \$1.00.

NEW
OREGON
POLE
LIMA
HALF
DWARF



ILLUSTRATIONS are from photo showing habit of growth of our Oregon Pole Lima, the most hardy and prolific as well as the most delicious of all beans. Bears from early summer until frost. See page 5.

A COMMERCIAL field of our "Diamond Ball Head" Cabbage. The best strain of "Ball Head" for marketmen. See page 11.



TWO GOOD THINGS FOR NORTHWESTERN PLANTERS

Early Jewel Tomato

The photo of Early Jewel is of a single vine, the entire row was just as heavy with large, smooth, solid and shapely, fruit. Early Jewel has given us larger crops, under ordinary culture, than other varieties. See description page 35.

Oregon Evergreen Corn

A western corn that is sweeter whiter, larger and more prolific than any other large white sweet corn. The very best for main crop. Page 14.

One Customer Reports :

" Over 1400 pounds of fine tomatoes were harvested from 50 plants of your Chalks Early Jewell, these were transplanted in open field May 12, 1910. Crop was uniform, heavy, very smooth and well colored. Not 1 per cent. was malformed or rough, and as a variety, was the most successful and profitable I ever planted."

TOMATOES

THE newer types of hardy, prolific Tomatoes are better adapted to the cool coast climate than the older sorts; and splendid crops are now being grown where heretofore it was thought Tomatoes would not thrive. A good plan is to try several varieties and find which is best suited to your especial conditions. The illustration on opposite page is from photo of single vine of CHALK'S EARLY JEWEL, grown in the field without irrigation.

CULTURE.—Sow early in hotbeds, and as soon as they have four leaves transplant into shallow boxes. Harden off, and set out as soon as danger of frost is past. An ounce of seed will produce 3,000 to 4,000 plants.

◆ CHALK'S EARLY JEWEL.

Large, bright red, smooth round fruits, very NEW deep and colored evenly up to the stem; very CORELESS. solid, almost seedless and of the finest flavor.

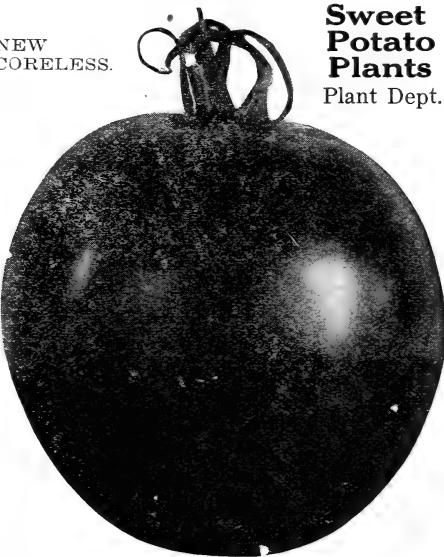
Vines are vigorous, not subject to blight, and yield fully equal to, or better than, Earliana.

We recommend Chalk's Early Jewel as the very best early Tomato for either market or home gardens.

Pkt., 10c.; oz., 35c.; 1/4 lb., \$1.00

Sweet Potato Plants

Plant Dept.



◆ LIVINGSTON'S GLOBE.

Finest of the early purple Tomatoes.
Hardy and blight-proof.

Fruits are of large, even size; very early; ripen clear through and are always smooth, firm and round; with solid meat and few seeds. Color is a beautiful, glossy, rose-tinged purple; very productive. Livingston's Globe is of delicious table quality and will keep longer than any other Tomato

Pkt., 10c.; oz., 40c.; 1/4 lb., \$1.00

LIVINGSTON'S NEW CORELESS.

The most perfect shaped Canning variety ever produced. Large size, globe shaped, full at stem end, bright red, a strong grower and big cropper.

It is immensely productive, clusters of four to seven fruits are produced at six to eight inches apart along the stem. All of the fruits are of marketable size, and many of them are quite large, twelve to fifteen ounces. Always free from green core; ripens all over and through and right up under the stem, all at once. A grand, good slicing variety; the seed cells being surrounded by bright red, heavy, meaty and delicious flesh, which is slightly acid. Price, pkt., 10c.; oz., 50c.; 1/4 lb., \$1.50.

NEW STONE.

This variety has obtained great popularity with canners, growers and market gardeners everywhere. Its solidity and carrying qualities are remarkable. Its color a desirable red. In shape, perfectly smooth and thicker from stem to blossom end than most varieties, making it very handsome and salable. All speak in highest terms of its beautiful color, its wonderful yielding properties, its unequalled firmness.

Pkt., 5c.; oz., 25c.; 1/4 lb., 75c.

FORDHOOK FIRST.

A splendid variety, especially adapted for cool, moist or heavy soils. Plants of strong, running growth; fruit, three inches in diameter, perfectly smooth and free from cracks; quite thick through and richly colored deep purple. **Very fleshy and of the finest flavor.** Produces smooth, solid, handsome fruit of superior quality, earlier than most other early sorts.

Pkt., 5c.; oz., 25c.; 1/4 lb., 75c.

QUARTER CENTURY.

A grand, new, dwarf Tomato. The fruit is large and heavy and superior in flavor; color, deep red. Fine for home or garden.

Pkt., 5c.; oz., 30c.; 1/4 lb., \$1.00.

◆ SPARK'S EARLIANA.

The Earliest Large Smooth Tomato.

Of large, uniform size and beautiful red color. Quality almost beyond praise. Ripens thoroughly all over, the stem-end coloring up perfectly. Almost seedless and very solid. A most vigorous grower and heavy bearer, continuing until frost. Succeeds everywhere, and especially recommended for this coast.

Spark's Earliana is as near seedless as any tomato, giving but 12 to 15 pounds of seed to the acre. For this reason the genuine seed can never be sold at a low price.

Pkt., 10c.; oz., 35c.; 1/4 lb., \$1.00.

COMET—Forcing.

The very best forcing variety and a general favorite with greenhouse growers. Color is a beautiful scarlet; fruits are of good size, very smooth and uniform. We offer a select strain from inside stock.

Pkt. 25c.

ATLANTIC PRIZE.

In point of earliness, this undoubtedly takes the lead. In size, shape and color it compares favorably with later sorts. Color, bright red.

Pkt., 5c.; oz., 20c.; 1/4 lb., 70c.

EARLY MICHIGAN.

An extremely smooth and perfectly shaped tomato; very early; vines strong and vigorous.

Pkt., 5c.; oz., 20c.; 1/4 lb., 70c.

LIVINGSTON'S PERFECTION.

One of the best; medium early, round, uniformly smooth; vines very productive; fruit deep scarlet, firm and of excellent quality. Vines continue long in bearing.

Pkt., 5c.; oz., 25c.; 1/4 lb., 70c.

Tomato Plants

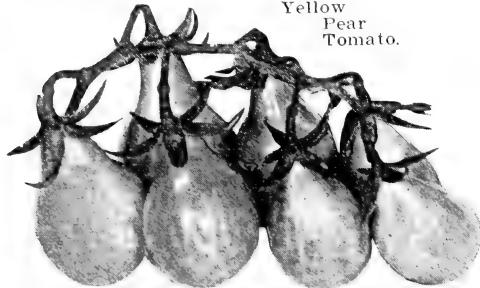
We have, in season, strong, hardy plants of all standard varieties. For prices, see Plant Department.

PORTLAND SEED COMPANY'S

TOMATOES—Continued

WELL KNOWN STANDARD VARIETIES.

	Pkt.	Oz.	1/4 lb.
ACME. The well-known, standard, bright pink Tomato.	.5c.	25c.	\$0.60
DWARF CHAMPION. Dwarf, upright growth; smooth, purple fruit.	.5c.	25c.	.75
GOLDEN QUEEN. This is a first-class, large, smooth, pure yellow Tomato.	.5c.	25c.	.75
LIVINGSTON'S BEAUTY. Large; good quality; deep red in color.	.5c.	25c.	.65
LIVINGSTON'S FAVORITE. Excellent for general crop; bears heavily.	.5c.	25c.	.70



YELLOW PEAR.

A small pear-shaped tomato, borne in great profusion, vine literally covered with large clusters of fine, solid fruits; excellent for preserving, and for use in salads and cooking is superior, as flesh is not watery. Very hardy. To this class belong **Yellow Plum** and **Red Cherry**. All same price.

Pkt., 5c.; oz., 25c.; 1/4 lb., 75c.



Ground Cherry
(Husk Tomato)

GROUND CHERRY or HUSK TOMATO.

Grows to great perfection under ordinary culture, yielding abundantly; very much prized for preserving; should be in every garden.

Pkt., 5c.; oz., 30c.; 1/4 lb., \$1.00.

Tomato Culture

Lithooy

Postpaid, 25c.

Tobacco

Sow the seed thinly in beds, as early as they can be well prepared. Cultivate thoroughly, transplanting when six inches high to rows four feet apart each way.

CONNECTICUT SEED LEAF.

Hardy, and the best adapted to cool localities, and for general use.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; 1/4 lb., 60c.; 1b., \$2.00.

HAVANA.

Of fine texture and delicate flavor.

Pkt., 5c.; oz., 25c.; 1/4 lb., 75c.

Tree Seed

NURSERYMEN:

We offer only fresh, new crop Seeds. Growers wanting large quantities should give us their orders early. Prices quoted on request. Single lb. prices are by mail, postpaid.

PLUM PITS.

(Prunus Myrabolano.) For nursery stock.

Oz., 10c.; 1/4 lb., 20c.; 1b., 55c.

APPLE SEED.

French Crab. Oz., 10c.; 1/4 lb., 25c.; 1b., 85c.

CHERRY PITS.

Mazzard. 1/4 lb., 15c.; 1 lb., 45c.

Mahaleb. Oz., 10c.; 1/4 lb., 25c.; 1b., 70c.

PEACH PITS.

For nursery stock. 1lb., 20c.; 100 lbs., \$2.25.

QUINCE SEED.

Oz., 20c.; 1/4 lb., 60c.; 1b., \$2.10.

GOOD

Arlington, Ore., Aug. 12, 1910.

Gentlemen: Your New Stone Tomato seed was good. I got a big crop of tomatoes this year and never lost one plant. Two hundred plants grew about 1500 lbs. This is true.

PEAR SEED.

Native. Oz., 20c.; 1/4 lb., 75c.; 1b., \$2.25.

French. Oz., 15c.; 1/4 lb., 50c.; 1b., \$1.85.

Japanese. The best imported for nursery stocks. Oz., 30c.; 1/4 lb., 85c.; 1b., \$2.85.

BOX ELDER, or ASH LEAF MAPLE.

(Negundo Aceroides.)

Oz., 10c.; 1/4 lb., 25c.; 1b., 75c.

LOCUST.

Yellow or Black. Oz., 10c.; 1/4 lb., 20c.; 1b., 60c.

Honey. Oz., 10c.; 1/4 lb., 20c.; 1b., 60c.

WALNUT, ENGLISH—Imported.

Named varieties, French grown, prices on Application.

2c each; \$1.50 per 100 nuts.

SEED

Kalama, Wn., May 6, 1910.

I want to state I have sold \$15.00 Earliana Tomato plants from 1 oz. of seed got of you last February.

TURNIPS



For early use, sow the small sorts as soon as the ground can be worked in the spring, in drills fourteen inches apart. As the seed is very fine, it should be covered but slightly, except in very dry weather. For fall and winter use the early kinds should be sown during July, August and September.

Early Garden Turnips

◆ EARLY WHITE MILAN.

Same as Purple Top Milan, but pure white, sweet and tender; best early market variety.

Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 80c.

◆ EARLY PURPLE TOP MILAN.

This variety is ready for the table sooner after planting than any other yef introduced. Top small, erect, strap-leaved; bulb a deep purple above, white underneath; flesh white, firm and delicate.

Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 80c.

EARLY SNOWBALL.

Early round turnip, maturing in seven weeks, is of perfect form, snowy whiteness, crisp, solid and of fine flavor.

Pkt., 5c.; oz., 10c.; 2 oz., 15c.; 1/4 lb., 20c.; lb., 60c.

Main Crop Turnips

WHITE EGG.

Is perfectly smooth, of a pure, clear white, growing half out of the ground, and at times to the size of a Ruta Baga, being a very choice kind for table use; of excellent flavor, sweet and mild. Pulls clean from ground; thin, snow-white skin.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 65c.

POMERANIAN WHITE GLOBE.

One of the most productive kinds, and in good, rich soil roots will frequently grow to 12 pounds in weight. It is of perfect globe shape; skin white and smooth; leaves dark green and of strong growth.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 65c.

LARGE WHITE NORFOLK.

A white variety, usually attaining a very large size. Extensively grown for stock feeding. The leaves are also used for greens. It is hardy and may remain in the ground all winter. Yields a very large crop.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 65c.

LARGE AMBER GLOBE.

One of the best for general crop; flesh firm and sweet; grows to a large size; excellent for table use or for feeding stock. Keeps well.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

EARLY WHITE FLAT DUTCH.

One of the best and most universally grown. Small, erect top, round flat; flesh white, firm, but very tender and sweet. Of quick growth, it is soon ready for the table and keeps well. (See cut.)

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

STRAP LEAF PURPLE TOP.

A leading white-fleshed variety, and one of the best, either for the family, market garden or field crop. It is medium size, and produces a large crop. The flesh is firm, but tender, and of a superior rich, buttery flavor. A good keeper. (See cut.)

Pkt., 5c.; oz., 10c.; 2 oz., 15c.; 1/4 lb., 20c.; lb., 60c.

EARLY SNOWBALL.

Early round turnip, maturing in seven weeks, is of perfect form, snowy whiteness, crisp, solid and of fine flavor.

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

PURPLE TOP WHITE GLOBE.

A large, globe-shaped variety; purple above the ground. It is handsome and of excellent quality, and recommended both for the family garden and field crop. (See cut.)

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 60c.

ORANGE JELLY.

Or Robertson's Golden Ball.

Undoubtedly one of the most delicate and sweetest yellow-fleshed turnips yet introduced. Not of large size, but firm, hard and most excellent flavor. Keeps well and is superior as a table variety. It is extensively used. (See cut.)

Pkt., 5c.; oz., 10c.; 1/4 lb., 20c.; lb., 65c.

COWHORN.

Sometimes called Long White. Slightly crooked. Pure white except a little shade of green at the top. Grows half out of the ground and is of very rapid growth. Is delicate and well flavored. Has proved itself one of the best stock turnips ever introduced in Oregon, as it is an immense yielder.

Pkt., 5c.; oz., 10c.; 1/4 lb., 25c.; lb., 75c.

YELLOW ABERDEEN.

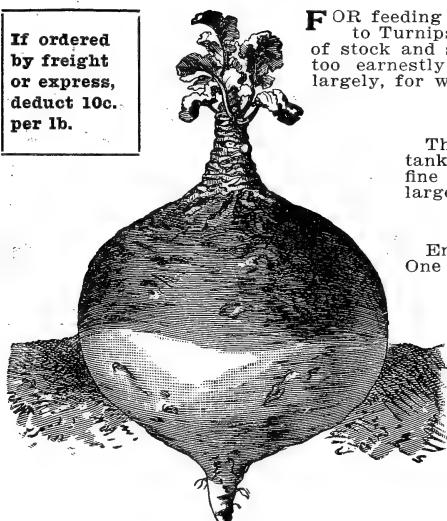
Round, medium size; light yellow. Produces a large crop; is hardy and keeps well; flesh very firm, but tender and sweet. A great favorite with the dairymen.

Pkt., 5c.; oz., 10c.; 2 oz., 15c.; 1/4 lb., 20c.; lb., 50c.

TURNIPS—Continued

Ruta Baga or Swede

If ordered
by freight
or express,
deduct 10c.
per lb.



PURPLE TOP RUTA BAGA.

FOR feeding stock in fall and winter there is nothing superior to Turnips or Ruta Bagas, as they are much liked by all kinds of stock and serve to keep them in good condition. We cannot too earnestly recommend farmers to increase their sowings largely, for we are sure the crop will prove remunerative.

MONARCH or TANKARD.

This is a yellow-fleshed sort, having very large, tankard-shaped roots; flesh very solid, fine grained, of fine flavor; grows well out of the ground and yields large crops.

Pkt, 5c.; oz, 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

SKIRVING'S.

Enormously productive; flesh yellow, solid and sweet. One of the best for field culture.

Pkt, 5c.; oz, 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

WHITE SWEET RUSSIAN.

This variety is most excellent, either for table or stock. It grows to a very large size; flesh white, solid, of a firm texture, sweet and rich; an excellent keeper.

Pkt, 5c.; oz, 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

IMPROVED AMERICAN PURPLE TOP.

The leading standard variety, being very distinct in type, attaining a wonderfully large size; immense yielder. The flesh is very firm, superior in every way, valuable alike for all purposes.

Pkt, 5c.; oz, 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

Herb Seeds

POT, SWEET AND MEDICINAL.

HERBS in general delight in rich, mellow soil. Those marked with a (*) are perennial, and when once obtained in the garden may, with a little attention, be preserved for years. Sow the seeds early in the spring in shallow drills, one foot apart. We offer some of the most useful and popular. They should be cut on a dry day, just before they come into full bloom, and tied in bunches and hung up or spread thinly on a floor where they can dry quickly. Prices include postage.

All the Following Herbs, 5c per Packet.

	Oz.	$\frac{1}{4}$ lb.	Oz.	$\frac{1}{4}$ lb.
Anise. Seeds aromatic	10c.	25c.	*Lavender. For fragrance	15c.
*Balm. For culinary purposes	25c.	65c.	Marjoram. Sweet	15c.
Basil—Sweet	15c.	45c.	*Rosemary. Aromatic oil	35c.
Borage. Leaves for flavoring	15c.	40c.	*Rue. Medicinal qualities	15c.
Caraway. For flavoring	10c.	25c.	Sage. Much used	15c.
Catnip. (Cat Mint)	40c.	\$1.00	Saffron	20c.
Coriander. (Aromatic)	15c.	25c.	Sorrel. Used in salads	15c.
Dill. Used medicinally	10c.	25c.	Summer Savory	10c.
*Fennel. (Sweet)	10c.	25c.	Tansy. Used in bitters	30c.
Fenugreek. For flavoring	10c.		Thyme. (Broad leaved)	25c.
*Horehound. Bitter, for tonic	20c.		*Wormwood. Medicinal use	20c.
Hyssop. Medicinal qualities	25c.	75c.		

Herb Seeds For Flavoring

ANISE.

Anise seed for flavoring. $\frac{1}{4}$ lb., 15c.; 1b., 50c.

Caraway.

We keep constantly on hand a large stock of well preserved seed for the use of Drugists, Bakers and Confectioners. $\frac{1}{4}$ lb., 10c.; 1b., 30c.; 100 lbs., market price.

Coriander.

Coriander seed for flavoring. $\frac{1}{4}$ lb., 15c.; 1b., 30c.; 100 lbs., market price.

DILL.

Dill seed for flavoring. $\frac{1}{4}$ lb., 20c.; 1b., 55c. Used to flavor soups, stews and pickles. The leaves possess similar qualities, and can be used in the same manner as the seeds.

POPPY.

Seed used for flavoring. $\frac{1}{4}$ lb., 15c.; 1b., 30c.



LOWEST MARKET PRICES ON LARGE ORDERS.

CLOVER AND GRASS SEEDS

HERE are many varieties of grasses and forage plants offered by Eastern seedsmen (often under new names) that will not give profitable crops in our climate, and to avoid disappointment, we refer you to the following list, which has been carefully selected and contains the most desirable varieties for general and special purposes.

A careful reading of the following pages will give you much valuable information that has required years of observation and experimenting to obtain.

IMPORTANT, Read Carefully

Clover, Grass and Field Seeds are subject to market changes, therefore we cannot print prices good for any length of time. When ready to buy, write us for special prices, stating quantity wanted; or order what you want at catalog prices and we guarantee that we will give you full value for the money sent, whether the price at the time you order be higher or lower. In other words, we will always ship seed to cover the full amount of money sent us, or if the difference is very great will notify before shipment.

 YOU WILL ALWAYS GET YOUR MONEY'S WORTH. 

Alfalfa or Lucerne Clover

ALFALFA should be cut just before coming into bloom. The hay is especially valuable for dairy cows. As soon as cut it immediately commences to grow, and during the hottest and driest weather, when other grasses are parched and withered, it remains fresh and green and grows as rapidly as ever. On the low lands it is not an unusual thing to harvest five or six crops of hay from the same field in one season without irrigation, and the same result is obtained on high, dry lands where irrigation is resorted to. It will not succeed on hard clayey soils. Its roots, in seeking moisture, penetrate to incredible depths. The seed should be sown in the spring, after danger from freezing the young plants is over, or in the fall, early enough to give it a good stand before frost.

Per lb., postpaid, 35c.; 100 lbs., \$21.00

Dry Land Alfalfa

This new Dry Land Alfalfa will produce large, profitable crops of hay and excellent pasture on the high, dry lands of Eastern Oregon, Washington, Idaho and Utah. Dry Land Alfalfa is especially recommended for the hills and plateaus where irrigation is impossible. It comes from the highest, driest alfalfa sections, and is very superior seed.

Per lb., postpaid, 35c.; 100 lbs., \$22.00

WHITE DUTCH CLOVER.

(*Trifolium Repens.*)

A small variety, having a white blossom. Of a vining nature, spreading rapidly. Superior for pasture and unsurpassed for the production of honey. It also makes a beautiful lawn when mixed with Blue Grass.

Choice Seed, per lb., postpaid, 45c.; 10 lbs., \$3.00.

Fancy Seed, per lb., postpaid, 50c.; 10 lbs., \$3.30.

RED CLOVER.

(*Trifolium Pratense.*)

The standard Clover for all purposes. Hardy and succeeds well on any good soil. Makes superior hay—especially if mixed with Timothy—either for dairy cows or for general use. Per lb., postpaid, 30c.; 100 lbs., \$18.00; fancy, \$19.00

MAMMOTH RED CLOVER.

Grows very large and is used almost exclusively for plowing under for manure.

Per lb., postpaid, 30c.; 100 lbs., \$19.50

BOKHARA SWEET OR HONEY CLOVER.

(*Mellilotus Alba.*)

A rapid growing, white flowered sort; excellent for bees. Sow 10 pounds per acre.

Per lb., postpaid, 40c.; 100 lbs., \$20.00

Turkestan Alfalfa

Will produce a luxuriant growth in the driest and hottest sections, without irrigation. It is perfectly hardy and will stand extreme cold in winter without harm. It yields a very heavy and rich crop of hay and makes a permanent pasture. We have secured a good stock of the pure, genuine imported seed.

Per lb., postpaid, 35c.; 100 lbs., \$24.00

CRIMSON OR SCARLET CLOVER.

(*Trifolium Incarnatum.*)

Highly commended for pasture and fertilizing purposes. It is a thrifty annual, growing from twenty to thirty inches high. It germinates quickly, grows rapidly and stools abundantly. Cut for hay when in full bloom.

Per lb., postpaid, 30c.; 100 lbs., \$18.00

ALSIKE OR SWEDISH CLOVER.

(*Trifolium Hybridum.*)

A perfectly hardy perennial variety which is rapidly growing in popular favor. Excellent for hay and pasture. Valuable for bees. Resists both drought and excessive moisture. The hay of this variety is greatly preferred by some to that of Red Clover, for the reason that it is generally finer, brighter and not so dusty, making it better for horses.

Per lb., postpaid, 30c.; 100 lbs., \$17.00; fancy, \$19.00.

ESPARSETTE OR SAINFOIN.

(*Onobrychis Sativa.*)

A deep rooting, perennial legume, extensively cultivated in dry, calcareous soils, which are too barren for Clover or Alfalfa. Sow 50 pounds per acre.

Per lb., postpaid, 30c.; 100 lbs., \$17.00

“Diamond Quality” Grass Seed

 Grass Seed Prices subject to change without notice. See note top of page 39. 

“Diamond” Fancy Lawn Mixture

To have a good lawn the soil must be fine and rich, and well leveled. Then the best seed obtainable should be used. Plant any time from September until late spring, depending upon the weather and soil conditions. Raking in the seed is advisable, and rolling greatly improves the turf. In watering your lawn soak it deeply and not too often, as light watering every day brings the roots close to the surface, where they quickly burn or dry out. You must not expect to make a fine lawn with cheap seed. The best lawn grass mixture will cost more at first than the poorer substitute, but it will be found much cheaper and more satisfactory in the end. Our “Diamond Quality” Fancy Mixed Grass Seed is prepared from the choicest reclaimed Grass Seeds that have been carefully selected for their fineness and deep rooting, close growing habits and seasonable qualities, producing an ideal dense, velvety turf of lasting quality that remains green throughout the year.

Growing tests have proven our “Diamond Quality” Lawn Grasses to be superior to any other mixture for our Western soils and climate; it is also absolutely free from chaff and foul seeds, weighing 23 pounds to the measured bushel. This is a guarantee of clean, plump, seeds, as cheap chaff seed is very light.

Price, per lb., 45c., postpaid; freight or express, per lb., 35c.; 10 lbs., \$3.00.

Sow 1 pound to 400 square feet, 10 to 15 pounds to a 50-foot lot.

WRITE US FOR SPECIAL MIXTURES FOR TERRACES, SHADY PLACES, DRY OR WET LAND.

Fine Mixed Lawn Grass

For use where a temporary lawn must be quickly prepared, and if kept closely cut will be lasting and have a handsome appearance.

This is a good, clean mixture, composed of hardy, compact growing grasses, and for the price **Per lb., postpaid, 35c.; by express, 10 lbs., \$2.00**

KENTUCKY BLUE GRASS.

(*Poa Pratensis.*)

One of the best grasses for permanent pasture, furnishing a constant supply of the most nutritious feed during the greater part of the year. Sow 28 pounds per acre.

For Lawns—Blue Grass is used very extensively for lawns and is found in all lawn grass mixtures.

Per lb., postpaid, 40c.; per 100 lbs., \$27.50

CANADIAN BLUE GRASS.

(*Poa Compressa.*)

Recommended in all pasture mixtures on dry soil; thrives well on clay or hard trodden and poor soil. Sow 28 pounds per acre.

Per lb., postpaid, 35c.; 100 lbs., \$18.75

ENGLISH RYE GRASS.

(*Lolium Perenne.*)

A strong growing, hardy perennial grass, noted for its nutritive qualities. Is equally valuable for both grazing and hay. Forty pounds per acre.

For Lawns this is used and recommended by many gardeners. If sown thickly it makes a fine lawn, and for large grounds and parks it is very successful.

Per lb., postpaid, 20c.; 100 lbs., \$8.00

CRESTED DOGS TAIL.

(*Cynosurus Cristatus.*)

A perennial grass with short, narrow leaves; valuable for lawns or pastures on dry, light land.

Per lb., postpaid, 55c.; 10 lbs., \$4.00

BERMUDA GRASS.

(*Cynodon Dactylon.*)

Suitable only for climates where the winters are not below the freezing point. It stands the hottest and driest season. Sow six pounds per acre.

Per lb., postpaid, 75c.

CREEPING BENT GRASS.

(*Agrostis Stolonifera.*)

Well adapted for sandy pastures, near the coast, and good for pasture on low lands. Excel- lentsown alone, use 25 pounds per acre. Excellent for lawns. Use 12 to 15 lbs. per 50-foot lot.

Per lb., postpaid, 40c.; 100 lbs., \$28.00

RHODE ISLAND BENT.

(*Agrostis Canina.*)

Resembles Red Top. Makes a close sod; valuable for permanent pastures and meadows. Twenty-eight pounds per acre. For lawns, use 12 to 15 pounds per 50-foot lot. Gives good results.

Per lb., postpaid, 40c.; 100 lbs., \$28.00

ITALIAN RYE.

(*Lolium Italicum.*)

A quick-growing grass, attaining a height of 2½ to 4 feet; very desirable for temporary meadows or pastures. Thrives best on soils that are slightly moist, and will even stand considerable overflow. Grows easily and bears an abundance of foliage that makes the best and sweetest hay imaginable. Sow 40 pounds per acre.

Per lb., postpaid, 25c.; 100 lbs., \$8.75

SWEET VERNAL.

(*Anthoxanthum Odoratum.*)

Valuable to put in pasture mixtures and lawn grass on account of its earliness and its delightful fragrance when in bloom. Twenty-eight pounds per acre, but this grass is recommended only for use in mixture.

Per lb., postpaid, 35c.; 100 lbs., \$20.00

A SEED SOWER

insures an even stand
prevents waste

PAYS FOR ITSELF

GRASS SEED—Continued

 Grass Seed prices subject to change without notice. See page 39. 

TIMOTHY.

(Phleum Pratense.)

This is the most valuable of all grasses for hay. Thrives best on moist, loamy soil. Sow early in the spring or fall. Sow 15 to 20 pounds per acre.

Per lb., postpaid, 25c.; 100 lbs., \$11.50.

ORCHARD GRASS.

(Dactylis Glomerata.)

One of the most valuable of all the cultivated grasses, blooming with Red Clover, and making with it admirable hay. As a pasture grass it is more productive than any other, and does best under close feeding. Sow 28 pounds per acre.

Per lb., postpaid, 30c.; fancy imported, \$19.50.

RED TOP.

(Agrostis Vulgaris.)

A good perennial grass. Generally sown for permanent pastures. Does best on moist or even marshy land. If the ground is not overflow land it is advisable to mix it with Meadow Fescue, Orchard Grass or Alsike Clover. Sow 28 pounds per acre chaff seed; 14 pounds hulled.

Prime Seed, per lb., postpaid, 25c.; 100 lbs., \$9.50.

Choice Hulled, a very superior grade of Red Top that is free from chaff and light seed.

Per lb., postpaid, 30c.; 100 lbs., \$17.00.

MEADOW FESCUE.

(Festuca Pratensis.)

Perennial; grows three to four feet high. Roots deep, thus resisting drought. It succeeds on any ordinary soil; yields a heavy crop of superior hay; one of the best grasses for pastures, being valuable to mix with other kinds.

Per lb., postpaid, 40c.; 100 lbs., market price.

BROMUS INERMIS.

(Russian Forage Grass—Awnless Brome Grass.)

This Bromus, on account of its strong perennial character, and its unusual drought-resisting powers, is the best grass we have for the semi-arid regions of the Northwest. It will stand the longest drought of all forage plants. Its running roots take a deep and permanent hold upon the land, and it will replace, in a large degree, the fast disappearing Bunch Grasses of Eastern Oregon and Eastern Washington, where it has done well. It grows luxuriantly, is freely eaten in either the dry or green state by cattle and yields enormously making the best of hay for horses or cattle. It is a perennial and yields from 4 to 6 tons to the acre. Sow 25 to 30 lbs. per acre, spring or fall. Seed weighs 14 lbs. per bushel.

Per lb., postpaid, 30c.; 100 lbs., \$12.50.



TALL MEADOW OAT GRASS.

(Avena Elatior.)

Often attains a height of 3 to 4 feet by the middle of June. Makes splendid hay and thrives on sandy loam, but makes its best growth where there is some clay. Can be fed as a pasture grass, and will generally bear cutting three times. For mixing with Perennial Rye and Alfalfa for sandy soils it is excellent. Sow about 30 to 40 lbs. per acre alone, or half that amount if mixed with the above varieties.

Per lb., postpaid, 35c.; 100 lbs., \$16.00.

GRASSES AND HOW TO GROW THEM.—Shaw.

450 Pages, Prepaid, \$1.60.



Tall Meadow Oat Grass.

MESQUITE.

(Holcus Lanatus.)

It is usually sown on virgin soil, without cultivation, after the ground has been burned over. Sow about 35 pounds to the acre chaff seed; hulled, 15 pounds per acre.

Fancy Hulled Seed, per lb., postpaid, 30c.; 100 lbs., \$18.00.

HARD FESCUE.

(Festuca Duriuscula.)

Fine, rather dwarf, justly noted for its drought-resisting qualities. Valuable as a pasture for sheep. Sow 20 pounds per acre.

Per lb., postpaid, 40c.; 10 lbs., \$2.50.

ROUGH-STALKED MEADOW GRASS.

(Poa Trivialis.)

A most valuable grass which flourishes in moist, rich soils.

Per lb., postpaid, 70c.; 10 lbs., \$5.50.

SHEEP'S FESCUE.

(Festuca Ovina.)

Grows freely in high, dry and open pastures. Its chief merit is for sheep pasture. Thirty-five pounds to the acre.

Per lb., postpaid, 40c.

WATER FESCUE.

(Glyceria Fluitans.)

This grass grows naturally in and beside ditches, pools, rivers and marshes. Sow 15 to 20 pounds per acre, fall or spring.

Per lb., postpaid, 65c.

REED CANARY GRASS.

(Phalaris Arundinacea.)

Will Grow on the Wettest Land You Have.

A grass that will grow on stiff, wet land, even if the ground is overflowed for a month or six weeks. Makes a good hay if cut early in the season. Sow 10 pounds per acre.

Price, $\frac{1}{4}$ lb., 35c.; 1 lb., \$1.00; postpaid.

GRASS SEED—Continued

Grass Seed Prices subject to change without Notice. See note on Page 39.

Special Pasture Mixtures

NO. 1.

A mixture of Grasses and Clovers, prepared especially for good, loamy soils, that will give satisfaction as a permanent pasture, or for mowing for mixed hay. For pasture, sow 20 pounds per acre.

Price, postpaid, 30c. per lb. By freight or express, 10 lbs., 20c. per lb.; 15 to 50 lbs., 19c. per lb.; 100 lbs., \$18.50.

NO. 3.

An extra fine mixture for sandy or light soils. This will make a good, strong turf, that under ordinary circumstances should last for many years. Sow 20 lbs. per acre.

Price, postpaid, 30c. per lb. By freight or express, 10 lbs., 22c. per lb.; 15 to 50 lbs., 21c. per lb.; 100 lbs., \$20.00.

NO. 4.

Mixed especially for the regions between the Cascades and Rocky Mountains, and on good, common wheat land. Try this mixture, as we believe that it will give you best possible results. Sow 20 lbs. per acre.

Price, postpaid, 30c. per lb. By freight or express, 10 lbs., 23c. per lb.; 15 to 50 lbs., 22c. per lb.; 100 lbs., \$21.00.

NO. 8.

Particularly for arid alkali lands. This mixture is composed of varieties that have proven to be the best for the soils mentioned. Sow 20 lbs. per acre.

Price, postpaid, 40c. per lb. By freight or express, 10 lbs., 28c. per lb.; 15 to 50 lbs., 28c. per lb.; 100 lbs., \$26.00.

Field and Miscellaneous Farm Seeds

Single pound prices include postage. If ordering by freight or express deduct 10c. per pound; 100-pound prices subject to market changes. Seed to cover amount remitted always sent unless otherwise ordered. See notes top page 39. Write for prices on large quantities.

ARTICHOKESE.

There is an unlimited market for Hogs and Artichokes are the cheapest and best feed. They never fail. They are also valuable to dairymen, being cheap, and good milk producers.

Planted and cultivated same as potatoes. Of great value for feeding stock. They are the best hog feed known; are remarkable for their fattening properties, great productiveness (over one thousand bushels having been raised on one acre) and ease with which they can be grown. They need not be dug. Turn the hogs into the field, and they will help themselves by rooting. One acre will keep from twenty to

thirty hogs in fine condition from October until April, except when the ground is frozen too hard for them to root. They are said to be a preventative of cholera and other hog diseases, and are also highly recommended for milch cows, increasing the yield of milk, and at the same time improving their condition. Plant 10 bushels per acre early in the spring.

Note—Tubers on hand from January to May. Per lb., postpaid, 15c.; 100 lbs., \$2.00.

MILLO MAIZE.

This is one of the sorghums similar to Kaffir corn. Grows erect with thick, close-jointed stalk. Height, 4 to 7 feet. Heads are very large, giving a heavy grain yield; is drought resistant, and succeeds on alkali soil. Plant late when ground is warm, 3 to 6 lbs. per acre.

Price, per lb., postpaid, 20c.; 100 lbs., \$4.50.

ARTICHOKE TUBERS.



BUCKWHEAT.

Common. Per lb., postpaid, 15c.; 100 lbs., \$3.75.

Silver Hull. Probably the most popular variety. Grain is of a light gray color, rounder than the common; has a thin husk; matures earlier and yields heavily. An excellent milling variety.

Per lb., postpaid, 20c.; 100 lbs., \$4.00.

Japanese. Seed of this variety is scarce, and we cannot always supply it.

Price per lb., postpaid, 20c.; 100 lbs., \$4.00.

CHEAT SEED.

Cheat yields a good crop of hay, especially on low or moist soil and will stand considerable overflow without harm. It makes an excellent hay for cows or horses, but should be cut before it gets too ripe. Sow in the fall or early spring same as oats and about 100 pounds per acre. Market price.

COW PEAS.

Are really small beans of vigorous vining habit and heavy foliage of great nutritive value, yielding five to nine tons of green feed per acre, or can be cut and cured like clover. They are great nitrogen gatherers and one of the best fertilizers when turned under. Sow two bushels per acre.

Whip-Poor-Will. Upright, or bush growth, earliest maturing, easily harvested.

Per lb., postpaid, 20c.; by freight or express, 10 lbs., 30c.; 100 lbs., \$6.25.

Clay. Of vigorous growth. Excellent for ensilage; can be planted in hills with corn.

Per lb., postpaid, 20c.; by freight or express, 10 lbs., 35c.; 100 lbs., \$6.25.

EGYPTIAN CORN.

Also called Jerusalem Corn or Dhoura.

One of the non-saccharine sorghums, requiring the same growing conditions. Succeeds well in dry sections. Producing small heads on side shoots up to 8 on a stalk, the seed is larger than Kaffir corn. Yield is heavy. Makes fine chicken feed. Plant 3 lbs. per acre.

White. Price, per lb., postpaid, 20c.; 100 lbs., \$4.50.

Red. Per lb., postpaid, 20c.; 100 lbs., \$4.25.

Cow Kale

(Or Thousand Headed Kale.)

The great demand for this wonderful forage plant proves it to be the most valuable green feed for Pacific Coast dairy and stockmen; endorsed by Agricultural Colleges and Government Stations. Cow Kale should be grown in the same manner as cabbage. Make the rows 4 feet, plants 3 ft. apart in the row. Can be set as late as July. Write for full information on Postpaid, 1 oz., 10c.; ¼ lb., 20c.; 1 lb., 60c.

FIELD AND MISCELLANEOUS FARM SEEDS—Continued

A KALE PATCH IN DECEMBER.



BARLEY.

Beardless. The earliest barley known. The straw is about the height of the Common Barley, but better, and will stand up on any land; with good season and land, has produced 80 bushels per acre. Sow as early as you can; frost does not hurt it. Many farmers will not grow barley on account of the long, harsh beards which are so disagreeable in threshing, although it is a profitable crop. This is beardless, and as easy to grow and handle as oats. It is becoming more popular each season.

Per lb., postpaid, 15c.; 100 lbs., \$2.50.

WHITE HULLESS OR BALD BARLEY.

White Hulless, or Bald Barley. A grand barley for stock feeding. Grain plump, heavy and when threshed is hulless like wheat. A heavy cropper. When grown and cut for hay it produces a magnificent fodder, which is very rich and almost equal to a grain feed. Much relished by horses and stock of all kinds. An excellent hog feed. Culture same as Common Barley.

Per lb., postpaid, 20c.; 10 lbs., 50c.; 100 lbs., \$3.00.

COMMON BARLEY.

We always aim to have a nice, clean stock of good Seed Barley on hand at all times.

Per lb., postpaid, 15c.; 100 lbs., market price.

FLAX SEED.

We have a splendid lot of select recleaned Western-grown Flax, new crop, large plump seed.

Per lb., postpaid, 25c.; 100 lbs., \$8.50.

FIELD PEAS.

Field Peas are a very profitable crop and are grown here very extensively. They can be grown alone or with oats. When planted with grain and cut green they make a large amount of very rich feed; also very valuable for enriching the soil if plowed under. The dry peas make excellent hog-feed and are quite fattening. Sow, if alone, 120 pounds to the acre; if with other grain, 60 pounds.

WHITE CANADIAN.

A leading kind; seed almost white; a heavy cropper.

Per lb., postpaid, 15c.; 100 lbs., \$4.00.

BLUE PRUSSIAN.

Very much like the above, except in color. This variety is largely sold for soup peas.

Per lb., postpaid, 15c.; 100 lbs., \$4.25.

SWISS.

A three-cornered pea; excellent for cooking purposes. Vines small. One peculiarity of these peas is that they are never infested with bugs.

Per lb., postpaid, 20c.; 10 lbs., 85c.

KAFFIR CORN.

An excellent fodder plant, yielding a large crop of fodder during a season. Grows four to five feet high; upright stalk, with numerous large leaves. Greatly relished by cattle and horses. The seed crop is also heavy, sometimes yielding 60 bushels to the acre. It does best sown in drills three feet apart, using six to eight pounds of seed per acre.

Per lb., postpaid, 25c.; 10 lbs., 60c.; 100 lbs., \$4.00.

LENTILS.

Succeed best in dry, sandy soil. A leguminous annual, the seeds of which are valuable for pigeons and are largely used for soups. The leafy stalks make good forage.

Per lb., postpaid, 25c.; 10 lbs., \$1.; 100 lbs., \$9.

MILLETS.

Sow in April, May or June, 12 to 15 pounds for seed or 20 to 30 pounds for hay per acre.

GERMAN, or GOLDEN.

An improved variety, yielding a larger crop of seed than the Common Millet. It is also taller than the Common, and yields a heavier crop of hay.

Per lb., postpaid, 20c.; 100 lbs., \$4.50.

HUNGARIAN.

A dwarf annual Millet. It is finer than the Common or German Millets, but produces a closer stand and yields almost as much per acre as the taller varieties. Superior for hay.

Per lb., postpaid, 20c.; 100 lbs., \$4.75.

NEW SIBERIAN.

New and wonderfully productive. Extremely hardy and about two weeks earlier than the German Millet, growing about four feet in height.

Per lb., postpaid, 20c.; 100 lbs., \$4.25.

COMMON.

A variety growing from three to four feet high, having rather broad blades and strong stalks.

Per lb., postpaid, 20c.; 100 lbs., \$3.50.



Millet.

FIELD AND MISCELLANEOUS FARM SEEDS—Continued

 Prices on Farm Seeds subject to change. See note, page 39. 

RAPE, DWARF ESSEX.

True Pure Seed.

One of the best forage plants, producing immense quantities of green feed when grass and other crops are dried up. Highly recommended by Prof. Shaw and other eminent authorities. Has yielded ten tons of green forage per acre with a food value double that of green clover. Excellent pasture for all stock, and fine green feed for chickens. Thrives on all soils and is ready for use in six to eight weeks from time of sowing. Also valuable for plowing under. Sow same as turnips from May until September or sow with grain. Use four pounds per acre in drills, eight pounds broadcast.

Price, postpaid, lb., 25c; 10 lbs., \$1.10; 100 lbs., \$9.50.

RYE, FOR SEED.

Planted extensively in both spring and fall.

Per lb., postpaid, 15c.; 100 lbs., \$2.35.

SEED WHEAT.

When ready to buy any variety of Seed Wheat, write us for quotation on quantity wanted or send in your order. We will give full value at lowest market price.

SALT BUSH.

A Fine Forage Plant for Arid Soils.

This wonderful forage plant will grow freely in arid and alkali lands that will produce no other vegetation, yielding a marvelously liberal foliage, which is eagerly eaten by all kinds of stock. Single plants grown on the poorest alkali ground have reached a diameter of 16 feet in one season. One pound of seed will plant an acre if evenly scattered over the surface. The seed should be mixed with ten times its weight of sand or ashes to facilitate its distribution. Sow the seed in the fall or spring (winter sowing is not desirable), before a rain, if possible, on well pulverized soil, and cover it lightly (about one-eighth of an inch) with a light harrow or brush. If desired, plants may be grown and transplanted when two or three inches high, six to seven feet apart. If the weather is dry when transplanting, supply a little water to each plant.

Special price in quantity.



VETCHES.

SPELTZ.

A combination of hay and grain in one. It has a hull somewhat like barley, but produces double kernels in each. A comparatively new and profitable crop, yielding 50 to 100 bushels of grain or four to six tons good hay per acre. Thrives well on poor soil, and dry weather seems not to affect it. After threshing the straw makes good feed.

Sow in spring at rate of 75 to 100 pounds per acre. It is advisable to roll or chop the grain before feeding.

Price, postpaid, 15c. per lb.; 100 lbs., \$3.00.

SUGAR CANE OR SORGHUM.

Early Amber, a valuable crop to grow for fodder or ensilage, as it furnishes an immense tonnage to the acre. When fed down while young it makes a rapid second growth.

Price, postpaid, per lb., 20c.; 100 lbs., \$6.25.

SUNFLOWER.

Mammoth Russian. The largest and most productive variety. It makes one of the very best of foods for poultry; a great egg producer.

Per 1/4 lb., 10c.; 1 lb., postpaid, 25c.; 10 lbs., 90c.

SALT BUSH.

A Fine Forage Plant for Arid Soils.

This wonderful forage plant will grow freely in arid and alkali lands that will produce no other vegetation, yielding a marvelously liberal foliage, which is eagerly eaten by all kinds of stock. Single plants grown on the poorest alkali ground have reached a diameter of 16 feet in one season. One pound of seed will plant an acre if evenly scattered over the surface. The seed should be mixed with ten times its weight of sand or ashes to facilitate its distribution. Sow the seed in the fall or spring (winter sowing is not desirable), before a rain, if possible, on well pulverized soil, and cover it lightly (about one-eighth of an inch) with a light harrow or brush. If desired, plants may be grown and transplanted when two or three inches high, six to seven feet apart. If the weather is dry when transplanting, supply a little water to each plant.

Pkt., 5c.; oz., 10c.; 1/4 lb., 40c.; 1 lb., \$1.25, postpaid.

VETCHES OR TARES (Common or Spring).

(Vicia Sativa.)

Oregon's Greatest Forage Plant.

One of the best forage plants that can be grown on the Pacific Coast. Often called Fall Vetches. This is a species of the pea, and is grown very extensively in Western Oregon and Washington, especially in the Willamette Valley and on the Oregon Coast. It furnishes an abundance of excellent feed, either green or cut and cured for hay. The seed should be mixed with an equal weight of some variety of wheat, oats or rye having a stiff straw, and the mixture sown at the rate of two bushels per acre. Weight, 70 pounds per bushel. Sow in the fall or early spring.

Per lb., postpaid, 20c.; 100 lbs., \$3.50.

VETCHES (Sand or Winter).

(Vicia Villosa.)

This variety thrives on poor, arid, sandy soils. It is sown either in the fall or spring, and is generally mixed with rye, which serves to support the plants. It grows to a height of three or four feet, and can be cut twice; first, as soon as the bloom appears, and afterward for seed. The plant is perfectly hardy and makes a very nutritious food.

Per lb., postpaid, 25c.; 100 lbs., \$10.00.

NOTE—In ordering Vetches, be careful to state plainly which variety you want, as they are both sown in the fall or winter in Oregon.

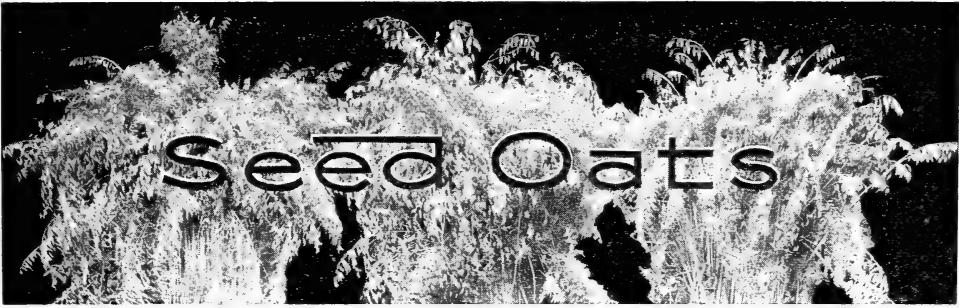
WILD RICE

(Zizania Aquatica.)

For Planting in Duck Ponds

And around hunting grounds to furnish food for wild fowl, ducks, geese, etc. Seed can be sown on the borders of lakes, ponds and small streams and grows very rapidly in one to four feet of water, attracting all of these wild birds from September on. It also purifies the water and affords a refuge for the small fry from the large fish. Fresh seed supplied in season; write for information.

Per lb., postpaid, 60c.



Seed Oats

Reasons Why You Should Grow Oats

THE production of fine seed oats has always been one of our leading specialties and we are more than ever impressed with the value and necessity of the oat crop.

The demand becomes greater each season. Oats always sell at a profitable figure, and there is always a market.

Planted in season, oats rarely fail, are easily and cheaply grown, and the valuable new varieties which we offer will yield double the number of bushels per acre that you would get from common seed oats, which means half the cost of production, or twice the profit.

They will mature in July from spring sowing, giving quick returns and leaving the soil in good condition for fall planting.

Of what other grain crop can so much be said and what other crop is more necessary and valuable to the dairy and stock man?

We offer select, recleaned, well-matured seed oats of standard varieties, suitable for this section, and our own varieties, "SHADELAND CHALLENGE" and "SHADELAND CLIMAX," the earliest, most vigorous, heaviest yielding oats ever grown anywhere. See page 46.

 PRICES ON OATS ARE SUBJECT TO MARKET CHANGES. SEE PAGE 39 

Gray Winter

This Oat is planted extensively throughout the Northwest as a fall or winter Oat. Is well and favorably known, being a good yielder, and the Oats are large and plump.

Price, postpaid, 1 lb., 20c.; 4 lbs., 60c.;
Fr. or Exp., Bu., 90c.; 100 lbs., \$2.25

White Seed

We always try to have a selected recleaned stock of No. 1 White Seed Oats which we can supply at market price. Write for samples and prices on the quantity you require, or send in your order. You will always get full value for money sent.

Price, postpaid, 1 lb., 20c.; 4 lbs., 60c.;
Fr. or Exp., Bu., 75c.; 100 lbs., \$2.00.

Swedish Select

We have a choice lot of these celebrated White Tree Oats, grown from the original regenerated Garton stock. They are for spring planting and are extremely early, vigorous, heavy yielding oats with large, plump kernels.

With the exception of our "SHADELAND" Oats, Swedish select are the very best white tree oats grown. Our price is very low and orders should be placed early, as we have but a limited amount to offer this season.

Price, postpaid, 1 lb., 20c.; 4 lbs., 60c.; Fr. or Exp., bu., \$1.00; 100 lbs., \$2.50.

Black Russian

A hardy winter tree Oat that will thrive on any well drained soil. Straw medium to large; stands up well, ripens early and yields heavily. Our stock is true and clean.

Price, postpaid, 1 lb., 20c.; 4 lbs., 60c.;
Fr. or Exp., bu., \$1.00; 100 lbs., \$2.25.

Swedish Red

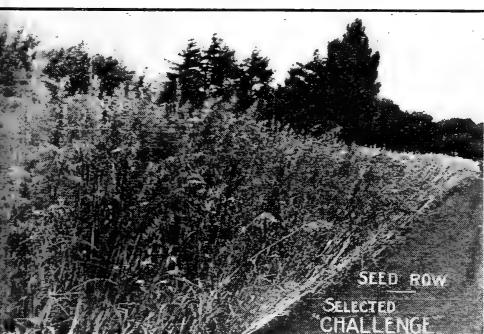
A comparatively new tree Oat from Sweden having a soft hull and fine soft straw which is ideal for hay. This is the Oat grown so extensively in Northern California and along the Southern Oregon Coast. Sow in fall or winter. Red Oats always bring a good price in the market.

Price, postpaid, 1 lb., 20c.; 4 lbs., 60c.;
Fr. or Exp., bu., 90c.; 100 lbs., \$2.25.

One Reason Why You Should Grow "Shadeland Oats."

"SHADELAND OATS" are grown especially for planting purposes and each year typical heads are selected in the field by hand, and from these new seed is grown for revitalizing and perpetuating the type, and maintaining the standard.

This is one of the reasons why you should buy your seed stock from the originators and have the advantage of this true strain. The cut shows a selected row of "Challenge" in the garden where it is being watched and grown by itself to renew the stock. See next page.



Treat Your Seed Oats with Formaldehyde.

Shadeland Oats

S HADELAND OATS have won every first premium at the OREGON STATE FAIR since their introduction and the 1910 exhibit by our grower, MR. C. D. NAIRN, was awarded—

"SHADELAND
CLIMAX."



FIRST PREMIUM for oats any variety.

FIRST PREMIUM for side oats.

FIRST PREMIUM for oats in sheaves.

"SHADELAND CHALLENGE" and "SHADELAND CLIMAX" have no equals either in yield, vitality or hardiness, as grown by our experienced oat specialist, who by careful selection and skill in propagation has improved and developed these strains to their present standard of superior excellence.

For general purposes, either fall or spring planting, our "Shadeland Challenge" white side oat will exceed your greatest expectations. For early spring planting under difficult conditions, for short, dry seasons, and for those who prefer a tree oat, "Shadeland Climax" will give ideal results.

Shadeland Climax

Our "Shadeland Climax" tree oat, introduced last season, has given splendid results in every section where trials were made, and for early spring planting where seasons are short, in high, dry altitudes, and where quick growth and early maturity are demanded, is superior to any oat ever before known, and will give you a bountiful harvest of the finest oats you ever saw. The white grains are uniformly large, plump and full with a very thin hull and are borne 3 in a spikelet, which partly accounts for its wonderful yield.

In our trials "Shadeland Climax" was not injured by severe early freezing and later drought, but stood up, green and vigorous, yielding one hundred bushels per acre on hill land when oat crops throughout the same section were stunted and dried up.

If you live west of the Cascade Mountains you can plant "Climax" fall or spring, any time the ground is fit, but where the climate is severe, spring plantings are best.

If you would have best results under any and every condition, give "SHADELAND CLIMAX" a trial.

Price, postpaid, 1 lb., 20c.; 4 lbs., 70c.; $\frac{1}{2}$ bu., \$1.00; bu., \$1.50; 100 lbs., \$4.00.

WHICH IS YOUR CHOICE?

We want every grower to carefully consider the fact that the difference in the cost of planting and harvesting an acre of Common Seed Oats yielding 20 to 40 bu. per acre, and our "Diamond Quality" regenerated Seed Oats yielding from 80 to 125 bu. per acre, is about \$1.50. In other words it costs about as much to plant, care for, and harvest Oats that yield only half a crop as it does to REAP A REAL HARVEST. JUST THINK THIS OVER.



Shadeland Seed Oats As grown by us on hill land are well matured and have great vigor and vitality. The above is a photo of one of our seed fields.

Get a "Clipper" Cleaner—Has the Vertical Blast

"Shadeland Challenge"

Our wonderful white side "Challenge" Oat is hardy, vigorous, early maturing, and still maintains its supremacy as the best, heaviest yielding, general purpose Oat in existence.

"Shadeland Challenge" is a heavy, plump, thin hulled Oat whose immense heads often measure 18 inches in length, bearing from 250 to 300 kernels. See head illustrated. Shadeland Challenge ripens in about 100 days from planting if spring sown, and 100 bu. per acre is not uncommon on ordinary soil. We introduced "Shadeland Challenge" as a spring Oat, but careful and conclusive tests have demonstrated that it gives even better results, if possible, from fall planting. Hundreds of our customers from every section have testified to the wonderful yield and splendid quality of this grand Oat.

Price, postpaid, 1 lb., 20c.; 4 lbs., 60c.; Frt. or Exp., $\frac{1}{2}$ bu., 75c.; bu., \$1.25; 100 lbs., \$3.25.

To know that you are getting the genuine "Shadeland" oats from the originator, always buy direct from our Portland Store. Prices are so low that you can not afford to risk any other seed oat.

Reference Tables

Quantity of Seed to produce a given number of plants and sow an acre.

Quantity per acre.

Artichoke, 1 oz. to 500 plants.	6 oz.
Asparagus, 1 oz. to 800 plants.	1 lb.
Asparagus Roots...	2,500 to 7,500
Barley ...	2 to 2 $\frac{1}{2}$ bu.
Beans, dwarf, 1 lb. to 100 ft. of drill ...	1 bu.
Pole, 1 lb. to 100 hills ...	$\frac{1}{2}$ bu.
Beet, Garden, 1 oz. to 100 ft. drill ...	6 to 7 lbs.
Mangel, 1 oz. to 100 ft. of drill ...	5 lbs.
Broccoli, 1 oz. to 2,000 plants.	4 oz.
Brussels Sprouts, 1 oz. to 2,000 plants ...	3 to 4 oz.
Broom Corn, in drills ...	15 lbs.
Buckwheat ...	$\frac{1}{2}$ to 1 bu.
Cabbage, 1 oz. to 2,000 plants.	4 oz.
Carrot, $\frac{1}{2}$ oz. to 100 ft. drill.	3 lbs.
Cauliflower, 1 oz. to 3,000 plants ...	3 to 4 oz.
Celery, 1 oz. to 5,000 plants.	4 oz.
Cheat ...	2 bu.
Chicory ...	4 lbs.
Clover, Alsike and White... Alfalfa ...	8 to 10 lbs.
Crimson Trefoil ...	15 to 20 lbs.
Red ...	10 to 15 lbs.
Collards, 1 oz. to 2,000 plants.	4 oz.
Corn, Pop (shelled) ...	8 to 10 lbs.
Sweet or Field, hills ...	12 to 15 lbs.
For soiling drills ...	3 bu.
Cress, $\frac{3}{4}$ oz. to 100 ft. drill.	11 lbs.
Cucumber, 1 oz. to 100 hills... 2 to 3 lbs.	2 to 3 lbs.
Egg Plant, 1 oz. to 2,000 plants.	4 oz.
Endive, $\frac{1}{4}$ oz. to 100 ft. drill.	4 lbs.
Flax, broadcast ...	$\frac{1}{4}$ bu.
Grass — Blue Kentucky, for pasture ...	1 to 2 bu.
Kentucky Blue, for lawns ...	100 lbs.
Meadow Fescue ...	1 bu.
Mixed Lawn ...	5 to 6 bu.
Red Top, Chaff ...	1 to 2 bu.
Red Top, solid seed.	10 to 15 lbs.
Timothy ...	10 to 15 lbs.
Orchard Perennial Rye.	1 to 2 bu.

Quantity per acre.

Foul Meadow, Wood Meadow- ow ...	1 bu.
Horseradish Roots.	15,000 to 25,000
Kale, 1 oz. to 2,000 plants.	4 oz.
Kaffir Corn, in drills ...	6 to 10 lbs.
Kohlrabi, 1 oz. to 2,000 plants	4 oz.
Leek, 1 oz. to 100 ft. of drill.	4 lbs.
Lettuce, 1 oz. to 150 ft. drill.	3 lbs.
Millet—For Seed ...	20 lbs.
For Hay ...	30 lbs.
Melon, Musk, 2 oz. to 100 hills	2 to 3 lbs.
Water, 4 oz. to 100 hills ...	3 to 4 lbs.
Oats ...	2 to 3 bu.
Okra, 1 oz. to 100 ft. of drill.	8 lbs.
Onion Seed, for sets.	60 to 85 lbs.
1 oz. to 150 ft. drill.	3 to 4 lbs.
Onion Sets, 1 qt. to 40 ft. drill	8 bu.
Parsley, 1 oz. to 150 ft. drill.	3 lbs.
Parsnips, 1 oz. to 150 ft. drill.	3 lbs.
Peas, Field ...	2 bu.
Garden, 1 lb. to 100 ft. drill	1 to 2 bu.
Pepper, 1 oz. to 1,000 plants.	2 lbs.
Pumpkin, $\frac{1}{2}$ lb. to 100 hills ...	3 to 5 lbs.
Radish, 1 oz. to 100 ft. drill.	10 lbs.
Rape ...	3 to 5 lbs.
Rye ...	1 $\frac{1}{2}$ to 2 bu.
Salsify, 1 oz. to 100 ft. drill.	6 to 8 lbs.
Speltz ...	100 lbs.
Spinach, 1 oz. to 100 ft. drill.	8 to 10 lbs.
Sugar Cane, in drills ...	10 lbs.
Sunflower ...	8 lbs.
Squash—Summer, 4 oz. to 100 hills ...	3 lbs.
Winter, 8 oz. to 100 hills.	4 lbs.
Tomato, 1 oz. to 2,000 plants.	4 oz.
Tobacco, 1 oz. to 4,000 plants.	3 oz.
Turnip, 1 oz. to 150 ft. drill.	1 bu.
Vetches ...	2 to 3 lbs.
With grain ...	1 bu.
Wheat ...	1 $\frac{1}{2}$ to 2 bu.

Weight of Various Articles.

Per bushel.

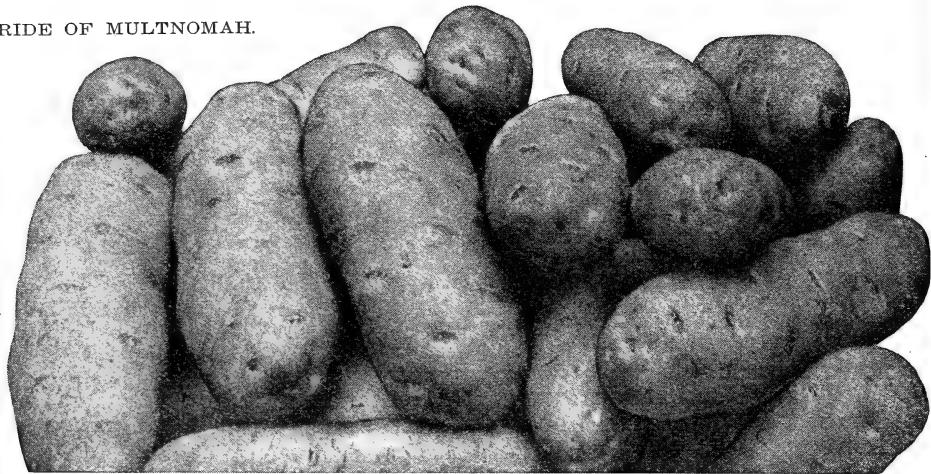
Barley ...	48 lbs.
Beans ...	60 lbs.
Buckwheat ...	48 lbs.
Blue Grass— Kentucky ...	14 lbs.
English ...	24 lbs.
Canary Seed ...	60 lbs.
Cheat ...	34 lbs.
Clover Seed ...	60 lbs.
Corn, Shelled ...	50 lbs.
Charcoal ...	22 lbs.
Flax Seed ...	56 lbs.
Grass Seeds (unless otherwise stat- ed) ...	14 lbs.
Hemp Seed ...	44 lbs.
Hungarian ...	48 lbs.
Lawn Grass ...	20 lbs.
Meadow Fescue ...	24 lbs.
Millet ...	50 lbs.
Oats ...	32 lbs.
Onion Sets ...	32 lbs.
Orchard Grass ...	14 lbs.
Peach Pits ...	48 lbs.
Peas, Smooth ...	60 lbs.
Peas, Wrinkled ...	56 lbs.
Perennial Rye ...	20 lbs.
Potatoes ...	60 lbs.
Rape ...	60 lbs.
Rye ...	56 lbs.
Red Top ...	14 lbs.
Red Top, Solid Seed ...	42 lbs.
Speltz ...	40 lbs.
Timothy ...	45 lbs.
Vetches ...	70 lbs.
Wheat ...	60 lbs.



"Diamond Quality" SEED POTATOES
One of Our Great Specialties

**True Type
Market Size**

PRIDE OF MULTNOMAH.



OUR select strains of Seed Potatoes for the Northwest have been carefully bred up by experts who have made a life study of Potato growing. And their care and patient effort has resulted in establishing fixed strains of almost perfect types that cannot be duplicated elsewhere, and we offer a complete assortment of splendid varieties for all purposes.

Let us furnish you some fresh stock of true type, vigorous tubers that will produce a big crop of uniform, salable potatoes, for first-class graded potatoes will always sell, no matter how full the market.

Pride of Multnomah

OUR NEW MAIN CROP POTATO.

Pride of Multnomah has withstood every test imposed upon it in different sections of the country and has more than proved our claim that it is the best main crop potato, and excels in yield, uniformity and table quality, being fine grained, of snowy whiteness, and for baking or boiling has no equal. The skin is smooth and white, eyes shallow, shape distinctive. See cut from photo. We believe **Pride of Multnomah** is **blight** and **disease proof**, and we know it to be **drought resistant to a remarkable degree**, having a mass of fine fibrous roots that retain the moisture, and promote a vigorous growth.

Pride of Multnomah is the best keeping potato ever known, and should be planted early to insure perfect maturity and finest quality.

Order now and have your potatoes when you are ready to plant. We have never had enough to fill all orders. Don't you be the one that is disappointed.

Price, postpaid, 1 doz. eyes, 40c; 4 lbs. Whole Potatoes, \$1.00; Freight or Express, 1 pk., \$1.00; $\frac{1}{2}$ bu., \$1.50; bu., \$2.75; 100 lbs., \$4.00.

Earliest of All



P. S. Co.s' Earliest of All

We have yet to find an early potato that can compare with our "**Earliest of All**." Its quick growth and early maturity give the ground for July planting, and a **second crop** can be grown the same season. Summer drought does not affect it, for its growth is complete before it can be injured. Planted early is ideal for "Dry Farming."

One customer reports them ready for baking June 1, nine weeks from planting, and fully matured in 12 weeks.

"**Earliest of All**" is a healthy, vigorous grower not subject to blight or disease and does not make a second growth. Keeps as well as any late potato.

A handsome, shallow eyed, white-skinned potato of the finest table quality.

Price, 1 doz. eyes, postpaid, 35c.; 4 lbs., \$1.00, postpaid; by Freight or Express, per peck, \$1.00; $\frac{1}{2}$ bu., \$1.50; bu., \$2.50; 100 lbs., \$3.50.

A. B. C. OF POTATO CULTURE.

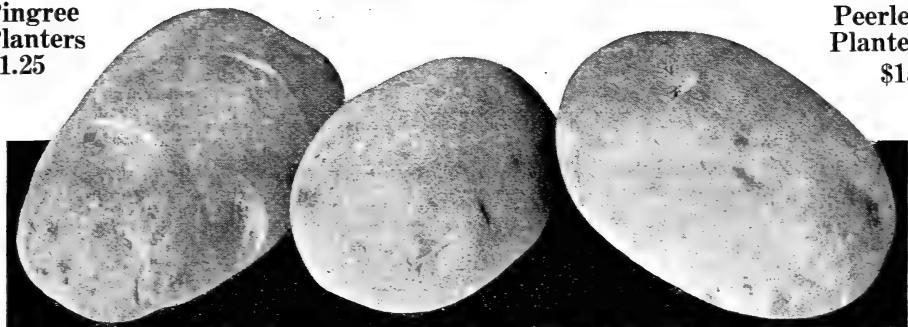
Postpaid, 50c.

POTATOES—Continued

Early Varieties

Pingree
Planters
\$1.25

Peerless
Planters
\$150



EARLY FREEMAN. From Photo.

A vigorous, productive, early potato of oval shape with russet skin, fine grained, white and floury. Not quite as early as "Earliest of All," but much earlier and a far better yielder than any other early variety. Tubers shapely and uniform, with very few small ones. **Early Freeman** is a potato of real merit. Try it.

Price, mail, 1 doz. eyes, 30c; 4 lbs., 80c, postpaid. Frt. or Exp., pk., 75c; $\frac{1}{2}$ bu., \$1.25; bu., \$2.00; 100 lbs., \$3.00.

Early White Prizetaker

A handsome early white Potato, one of the finest of all early sorts, being oblong in form, 4 or 5 inches in length, with white, smooth skin and few eyes. It is a very superior cooking Potato either baked or boiled, cooking up dry and floury.

White Prizetaker has important advantages over all other early Potatoes, as its white skin, large size and good keeping qualities make it an ideal main crop variety, that sells at the best price. We always advise early planting, as the crop will be larger and better.

Price, postpaid, 4 lbs., 80c; Frt. or Exp., peck, 75c; $\frac{1}{2}$ bu., \$1.00; bu., \$1.75; 100 lbs., \$2.50.

Early Sunrise

The best early pink variety—earlier than Rose, about the same depth of color, but a smoother, rounder Potato, if anything, a bit more slender than Rose. Sunrise is hardy, blight proof, and the best yielder of its type.

Price, postpaid, 4 lbs., 80c; Frt. or Exp., peck, 75c; $\frac{1}{2}$ bu., \$1.00; bu., \$1.75; 100 lbs., \$2.50.

Early Rose

Our stock of this popular variety is a special improved strain of our own growing; is very vigorous and extremely early.

Price, postpaid, 4 lbs., 80c; Frt. or Exp., peck, 75c; $\frac{1}{2}$ bu., \$1.00; bu., \$1.75; 100 lbs., \$2.50.

Main Crop Varieties

New—Hundred Fold

A splendid new main crop variety of the same general type as Uncle Sam, but surpassing that excellent variety in many ways, being a splendid dry land Potato, an enormous yielder and of the finest quality, being white, dry and mealy at any stage of development. The skin is russet, which is a mark of quality.

Hundred Fold is very hardy, with small vines, but the tubers are large and uniform. We consider it a variety of great merit, specially recommended for dry sections.

Price, postpaid, 1 doz. eyes, 40c; 4 lbs., \$1.00; Frt. or Exp., pk., 75c; $\frac{1}{2}$ bu., \$1.25; bu., \$2.00; 100 lbs., \$3.00.

American Wonder

American Wonder is not only one of the best main crop potatoes, but is also one of the earliest potatoes grown. It is practically blight-proof, a strong grower, a great producer, and one of the best varieties for general field culture. The vines are very strong and branching, with dark green foliage. Tubers white, large and uniform in size; elongated, slightly compressed, with few eyes, which are nearly flush with the surface. In quality nothing can surpass this variety—either baked or boiled. It is dry and floury, and has a rich, sweet flavor. This is a potato much sought after by our commission men, potato buyers, shippers and dealers. The American Wonder will greatly outyield Burbanks, and surpasses them in many ways. We advise extensive planting of this sort. True stock.

Price, postpaid, 4 lbs., 60c; Frt. or Exp., peck, 75c; $\frac{1}{2}$ bu., \$1.00; bu., \$1.75; 100 lbs., \$2.50.

Write for price in quantity.

Burbank

A standard commercial variety. We can offer a splendid strain of select Burbanks, not the "run-out" stock generally seen, but the genuine article, which is a really good Potato.

Price, postpaid, 4 lbs., 80c; Frt. or Exp., peck, 75c; $\frac{1}{2}$ bu., \$1.00; bu., \$1.75; 100 lbs., \$2.50.

Sir Walter Raleigh

A white main crop Potato of an oval form, of fine grain and good cooking qualities. It is a seedling of Rural New Yorker No. 2, and a great improvement over that variety, being the best of the many Carmans produced. Excels most main crop varieties in keeping qualities; is very attractive and uniform in shape, and always a good yielder. We recommend it for a late shipping variety.

Price, postpaid, 4 lbs., \$1.00; Frt. or Exp., peck, 75c; $\frac{1}{2}$ bu., \$1.25; bu., \$2.00; 100 lbs., \$3.00.

Formaldehyde Prevents Potato Scab—See Index.

FLOWER SEED DEPARTMENT

Choice New and Standard Varieties

FLOWERING plants are enjoyed by everyone, and cut flowers for home use or flowering plants for garden display, can easily be grown; their care is a pleasant and healthful diversion, and for the small expense of time and money nothing will return so much pleasure and profit. If you have any planting problems, if you wish to produce special effects or work out color schemes, write us; we will be glad to assist you in every way possible, and our experience is at your service.

CULTURE.—Cultural directions are printed on the back of nearly all packets. Flowers usually succeed best in a sandy loam, made rich with well rotted manure, which should be made fine and thoroughly mixed with the soil. A soil thus prepared will remain moist and loose, so that flower seeds, which are generally small and delicate, will germinate and grow with vigor.

After the seeds are up they require plenty of air and moisture, but they must not be too wet or they will "damp off." When large enough to transplant, put them in boxes or pots, giving them plenty of room, then when the ground is warm enough to put them outside each plant will have a nice clump of roots, but if they are left in the seed bed and are close together they will be weak and will not thrive.

A common mistake with flower as well as other seeds is planting too deep. A good rule is to plant the same depth as the thickness of the seed, and always press the soil down firmly, as this helps the seed to secure a firm hold and also retains the moisture.

A hotbed or cold frame is very convenient to start seeds in, as the temperature and moisture can be so regulated as to make their germination and rapid growth more certain. Most seeds do well if sown in boxes in a sunny window in the house.

Plants are usually ready to be transplanted when they have made a growth of two inches.

INFORMATION THAT WILL AID IN SELECTION OF FLOWERS.

Annuals bloom and ripen the first year, and then they perish. Many annuals in warm climates, or when taken in, or protected during winter, become perennial, with short lives.

Biennials do not generally flower the first year, and are in their perfection the second year.

Perennials flower several years in succession.

Hardy Annuals, Biennials and Perennials can

be sown in the open ground early in the spring, if desired, and **Hardy Biennials** and **Perennials** do not require any protection in winter.

Half-Hardy Annuals, Biennials and Perennials should not be sown in open ground until settled, warm weather, though they can be sown in the house, if desired, early, and afterwards transplanted. The two latter need to be protected in the winter, or carried over until spring in cold frames or greenhouses.

Asters

As fall-blooming annuals Asters have no superiors, and many of the new varieties rival the chrysanthemum in size and beauty. We offer a select collection of the choicest varieties and all of our seed is fresh from the most expert growers. Asters should have rich soil and abundant moisture. They are half-hardy annuals. Fine Plants in Season, see Plant Department.

Finest New Asters

LAVENDER GEM.

This beautiful new aster of the comet type is an exquisite shade of true lavender, beyond question the finest yet produced. Is free flowering, erect habit, medium early. Every florist should grow this aster.

Pkt., 15c; $\frac{1}{8}$ oz., \$1.00

PINK GEM.

Identical with the lavender type, except in color, which is a lovely bright pink.

Pkt., 15c.; $\frac{1}{8}$ oz., \$1.00.

WHITE GEM.

A beautiful white aster of the new "Gem" type—same as lavender and pink Gem.

Pkt., 15c.; $\frac{1}{8}$ oz., \$1.00.

HERCULES WHITE.

A splendid new half dwarf white, with immense pure white blooms of great beauty. Be sure to give this novelty a trial.

Price, pkt., 25c; $\frac{1}{8}$ oz., \$2.00

NEW "CREGO GIANT" ASTER.

The "Giant Crego" is distinct in every way, and its magnificent flowers, often 6 inches in diameter, are fully equal to chrysanthemums. They have rare beauty of form and brilliant coloring, are very vigorous, and free flowering; blooms are borne on long stems.

White, Shell Pink, Rose, Pkt., 15c.; $\frac{1}{8}$ oz., \$1.00

"MIKADO."

Another new type of Aster of great merit. A favorite with florists. Has very long, narrow petals, straight at the outside, but toward the center they cross and recross in splendid confusion, giving the bloom a beautiful, fluffy fullness. Mikado is very vigorous, with strong branching habit, producing a blossom on every shoot.

Pink, White, Per Pkt., 15c; $\frac{1}{8}$ oz., \$1.00

DAYBREAK.

Flowers are full, large and round, borne freely on long stems. Color a dainty shell pink. Very early. Height, 18 inches.

Price, per Pkt., 10c.; $\frac{1}{8}$ oz., 75c.

PURITY.

Same as Daybreak, excepting color, which is a pure, glistening white. Pkt. 15c.; $\frac{1}{8}$ oz., 75c.

IMPERIAL LAVENDER.

Of the same type as Daybreak, Purity and Imperial Yellow. Color, a lovely light lavender. Upright, free bloomer.

Pkt., 10c.; $\frac{1}{8}$ oz., 75c.

IMPERIAL YELLOW.

Handsome flowers of a light lemon yellow; a new color in asters. Pkt., 10c.; $\frac{1}{8}$ oz., 75c.

ASTERS—Continued

QUEEN OF THE MARKET.

Best early Aster, of graceful spreading habit. Two weeks ahead of other varieties.

Color, White, Lt. Blue, Scarlet, Dark Blue.

Price, Pkt., 10c; $\frac{1}{4}$ oz., 40c

CHRYSANTHEMUM FLOWERED.

Half dwarf; of compact growth; flowers large, abundant and later than many sorts.

White, Scarlet, Lilac, Rose or Mixed.

Pkt., 10c.; $\frac{1}{4}$ oz., \$1.00.

GIANT COMET.

One of the handsomest of the tall growing sorts; flowers large and beautiful; petals long and twisted. Rose, Crimson, Light Blue, White or Mixed.

Pkt., 10c; $\frac{1}{4}$ oz., 50c

SEMPLE'S LATE BRANCHING.

A magnificent strain; flowers large, beautiful, double, and borne on long stems.

White, Rose, Crimson, Blue or Mixed.

Pkt., 10c.; $\frac{1}{4}$ oz., 35c.

EQUAL TO CHRYSANTHEMUMS—

Winlock, Wash., Feb. 1, 1910.

Dear Sirs: Last year I ordered aster seed from you and had flowers as large and as handsome as chrysanthemums.

ACROCLINIUM—EVERLASTING.

Elegant, annual, everlasting, producing beautiful daisy-like flowers, resembling the Rhodanthe. Fine for winter bouquets. Gather them partially opened, and dry in the shade. Height, ten to fifteen inches.

Mixed, all colors, pkt., 5c.

AGERATUM.

Fine for bouquets and useful for beds, borders and pot plants. The flowers are graceful tufts of fine petals that remain fresh a long time after being cut. The plant blooms all summer. Half hardy annual; six to eighteen inches high. (See cut). Plants in season.

Mexicanum Nanum. Light Blue, White or Mixed.

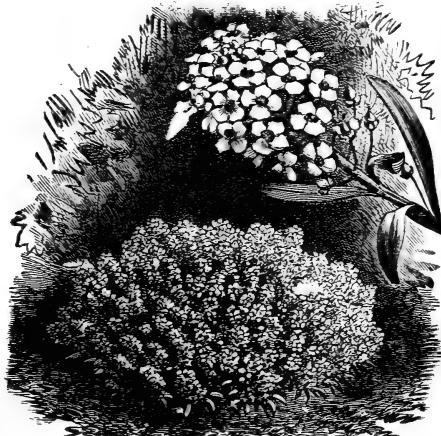
Pkt., 5c.; $\frac{1}{4}$ oz., 15c.

AGROSTEMMA.

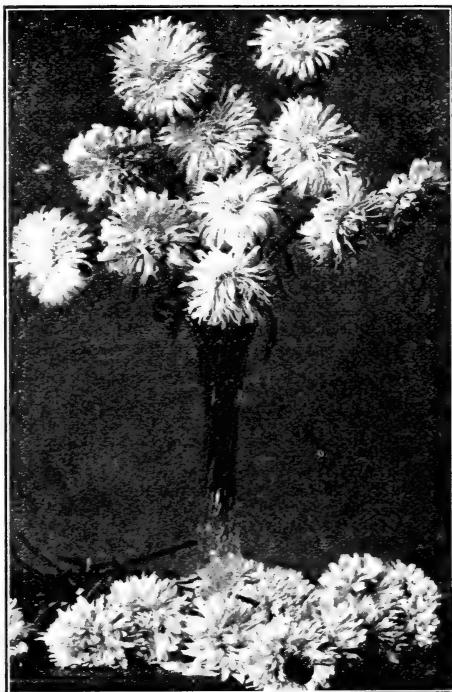
Strikingly beautiful for beds, ribbons and borders. Its graceful, pink-like flowers remain fresh a long time after being cut, and are very handsome in bouquets. Thrives in any soil. (See cut.)

Coronaria. Perennial.

Pkt., 5c.



ALYSSUM.



"COMET" ASTERS.

AMMOBIUM.

One of the hardiest everlastings. The flowers are not large, but beautiful in form, and pure white. Very desirable for winter bouquets. An easily grown annual.

Pkt., 5c.

ARABIS, OR ROCK CRESS.

The earliest, prettiest, spring flower. The spreading tufts are covered with a sheet of pure white flowers as soon as the snow disappears. Unequalled for rockeries or edgings; withstands the drought and is always neat.

Alpina. (See cut)

Pkt., 5c.

Alpina Grandiflora Superba (new).

Pkt., 10c.

ALYSSUM.

Every garden should have plenty of Sweet Alyssum; its small, white flowers, borne in great profusion, are delicately fragrant and valuable for cutting; it is a good basket and pot plant, and valuable for carpet bedding. In the border sow thickly so as to make a mass. It is desirable to sow the seeds early in spring or even the previous autumn. Hardy annual. Plants in season.

Maritimum. Sweet.

Pkt., 5c.; oz., 30c.

Maritimum. Little Gem.

Pkt., 5c.; oz., 50c.

Procumbens. Of trailing habit; profuse bloomer.

Pkt., 10c.; $\frac{1}{4}$ oz., 20c.

Saxatile. Perennial. Yellow flowers.

Pkt., 5c.; $\frac{1}{4}$ oz., 20c.

AMARANTUS.

Our warm summers suit admirably the varieties of Amaranthus cultivated for ornament. These are plants which are striking on account of their foliage or peculiar mode of bloom.

Melanochlorus Ruber. Deep, red foliage; dwarf.

Pkt., 5c.

Caudatus. Graceful, drooping flowers.

Pkt., 5c.

Tricolor, or Joseph's Coat. Foliage scarlet, yellow and green.

Pkt., 5c.

AURICULA, OR PRIMULA AURICULA.

Beautiful, spring-blooming flowers. Hardy, perennial. **Finest Mixed.** **Pkt., 25c.**

ASPARAGUS PLUMOSUS, OR
ASPARAGUS FERN.

One of the prettiest house plants. The leaves are bright green, gracefully arched, surpassing Maidenhair Ferns in grace, delicacy of texture and richness of color. **For plants see Plant Department.** **Pkt., 25c.; 25 seeds, 50c.**

ASPARAGUS SPRENGERI, OR EMER-
ALD FEATHER.

One of the best of the new so-called ferns. Feathery foliage; useful for bouquets, wreaths or sprays, remaining perfect for weeks after cutting. Grows freely the whole year round. **(For Plants see Plant Department.)**

Price: Pkt., 10c.; 25 seeds, 25c.

BACHELOR'S BUTTON,
OR CENTAUREA CYANUS.

A hardy annual, easily cultivated. Has recently been greatly improved, and now produces handsome flowers of a great variety of rich colors. Borne on tall, branching stems, with but little foliage. Striking and handsome.

Cyanus. Fine single mixed. **Pkt., 5c.; oz., 25c.**

Cyanus. Fine double mixed. **Pkt., 5c.; oz., 50c.**

Cyanus. Alba, single white. **Pkt., 5c.; oz., 35c.**

Cyanus Azurea. Single, blue. **Pkt., 5c.; oz., 35c.**

BALLOON VINE.

A rapid, graceful climber, with inflated seed pods; flowers white. Tender annual.

Pkt., 5c.; oz., 25c.

BROWALLIA.

Handsome, free flowering annual. Covered all summer with bright, rich blue and white flowers. Worthy of more general cultivation. Eighteen inches high. **Mixed Pkt., 5c.**

BRACHYCOME.

Swan River Daisy. A charming flower in white and blue varieties. The plants grow about twelve inches in height and bloom freely. They make elegant border plants.

Choice Mixed, Pkt., 5c.

BEGONIA.

Begonias are among the most beautiful of flowering plants especially adapted to pot culture. Try our select seed; the finest in the world.

Rex. Ornamental leaved varieties; very handsome. **Mixed, Pkt., 25c.**

International Prize. Single mixed. **Pkt., 25c.**

Fringed. Single mixed. **Pkt., 25c.**

Gracilis. **Pkt., 15c.**

Finest Strain of Double Tuberous Rooted. **Pkt., 25c.**

CALENDULA, OR POT MARIGOLD.

The well-known Pot Marigold, valued by Europeans for flavoring soups and stews. Flowers are dried in fall and kept in paper bags for use. In mild climates this plant will bloom nearly all the year round. Plant in early spring in open ground.

Double Mixed, Pkt., 5c.; ½ oz., 15c.

CATCHFLY, OR SILENE.

A hardy annual, yielding for a long time a profusion of umbels of bright colored flowers. The plant is covered with glutinous moisture, to which flies adhere; hence its name. Fine mixed, all colors.

Pkt., 5c.; oz., 25c.

BALSAM.

Ladies' Slipper
or
Touch-Me-Not

Exceeding gly
h a n d s o m e
p l a n t s , p r o d u c-
i n g m a s s e s o f
a t t r a c t i v e a n d
v a r i o u s c o l o r e d
f l o w e r s . H a l f
(See cut.)

Tall Double
Camellia Flow-
ered Mixed.
Pkt., 5c.; ¼ oz.,
35c.

Dwarf, Double,
Mixed,
Pkt., 5c.; ¼ oz.,
15c.



BALSAM.

CANNA.

Ornamental, tropical looking plants of easy culture; large and beautiful flowers. Hardy perennial. For Canna Bulbs, see Plant Department.

Crozy's New Large Flowering Mixed.
Pkt., 10c.; oz., 35c.
New French and German varieties; mixed.
Pkt., 10c.; oz., 35c.

CANARY BIRD FLOWER.

Climbing plant with graceful foliage and yellow blossoms. Half-hardy annual.

Pkt., 5c.; ¼ oz., 15c.

CANDYTUFT.

Candytuft has long been among the most highly prized of garden annuals. The best effect is produced by raising the plants in masses, and sowing the seeds where the plants are to bloom.

Odorata. Sweet scented; white.
Pkt., 5c.; oz., 20c.
White Empress. Very sweet and attractive.
Pkt., 10c.; oz., 50c.
Carmine or Purple.
Mixed. All colors.
Pkt., 5c.; oz., 40c.
Sempervirens. Perennial. White.
Pkt., 10c.; ½ oz., 25c.

CALLIOPSIS, OR COREOPSIS.

Very showy and attractive. Always covered with a mass of bright flowers. A fine cut flower.

Choice Mixed Dwarf Annual, Single.
Pkt., 5c.; ¼ oz., 20c.
Choice Mixed Double Annual.
Pkt., 5c.; ¼ oz., 20c.

Lanceolata. A perennial, blooming the first year; flowers rich yellow, single; very fine for cutting.
Pkt., 10c.; ¼ oz., 50c.

Grandiflora. Perennial. Mixed.
Pkt., 10c.; ¼ oz., 25c.

CALCEOLARIA.

Very handsome and much admired. Produces a profusion of beautiful flowers of unique form and colorings. Fine for pot culture.

Hybrida. Finest Mixed.
Pkt., 50c.

CALLA.

Devoniensis. New. A fine calla that will bloom from seed in one year. For Calla Bulbs, see Plant Dept.

Pkt., 15c.; 25 seeds, 50c.

Aethiopica. The well-known "Lily of the Nile."

Pkt., 15c.

Carnation

Universally admired, deliciously fragrant. There is no more satisfactory flower to grow and few that are as lasting. The seed we offer is the finest obtainable and our new strains of perpetual flowering carnations will bloom the first year. Fine plants in season, see Plant Dept.

CARNATION.

Chabaud Everblooming. Flowers in 5 to 6 months from sowing.

Extra Select, Double White, Pink, Red, or Yellow. Pkt., 15c.

Extra Choice Double Mixed. Pkt., 15c.

Fine, Double Mixed. Pkt., 10c.

Grenadin. Scarlet; charming double scarlet, dwarf and compact; very early, free flowering; especially fine for borders.

Per Pkt., 15c.; $\frac{1}{8}$ oz., 75c.

MARGARET CARNATIONS.

Flower in 4 Months from seed. Separate colors, white, yellow, dark red, mixed.

Pkt., 10c.; $\frac{1}{8}$ oz., 30c.

CANTERBURY BELLS.

Very ornamental garden plants of the easiest culture; hardy biennial, two and a half feet high, producing large, nodding and charming bell-shaped flowers of many exquisite shades.

Campanula. Single, mixed.

Pkt., 5c.; $\frac{1}{8}$ oz., 20c.

Campanula. Double, mixed.

Pkt., 10c.; $\frac{1}{8}$ oz., 50c.

Campanula. Calycanthema (Cup and Saucer) White or mixed. Pkt., 5c.; $\frac{1}{8}$ oz., 50c.

Persicifolia. Hardy perennial; very fine; blooms in June. Mixed. Pkt., 20c.

Diamond Mixture. Finest sorts; all colors, single and double. Pkt., 10c.

CASTOR BEAN, OR RICINUS.

Highly ornamental, of stately growth and having large leaves of bronze or glossy green; of very easy culture. (See cut.)

Sanguineus. Brilliant scarlet.

Pkt., 5c.; oz., 20c.

Zanzibariensis. Surpasses all in size and beauty of colors. Mixed.

Pkt., 5c.; oz., 20c.

Borboniensis Arboreus. The largest variety.

Pkt., 5c.; oz., 20c.

Mixed. Best varieties.

Pkt., 5c.; oz., 15c.

New Hybrid. Panormitanus. Dark brown leaves; very decorative. Pkt., 10c.; oz., 50c.

COSMOS.

Seed sown in March or April and transplanted to open ground will produce plants three to five feet high by September, which thereafter and until November, will yield hundreds of blossoms three inches across; they are of various shades, from pure white to purplish crimson. Both foliage and flowers are unsurpassed for bouquets and vases. Annual. (Plants in season.)

Lady Lenox. A magnificent new type of extraordinary size and rare beauty. Color, a delightful pink. Beautiful under artificial light. The oval petals form a perfectly circular flower which keeps well when cut. (See cut.)

Price, per Pkt., 10c.; $\frac{1}{8}$ oz., 50c.

Klondyke. Blooms very early and continuously; three to four feet high; flowers large, golden yellow and borne on long stems.

Pkt., 10c.; $\frac{1}{8}$ oz., 15c.

Early Dawn. White, slightly tinted pink.

Pkt., 10c.; $\frac{1}{8}$ oz., 35c.

Marguerite. New and odd; very pretty, petals fringed. Mixed.

Pkt., 15c.; $\frac{1}{8}$ oz., 50c.

Mammoth Flowering. White, pink, red or mixed.

Pkt., 10c.; $\frac{1}{8}$ oz., 20c.

"AMERICAN
CARNATION
CULTURE"
Lamborn.
\$2.00 Postpaid.



CENTAUREA.

Odorata Chameleon. Grown for its handsome, fragrant, yellow and rose flowers; superb.

Imperialis. A fine, sweet-scented flowering variety. Hardy annual. All colors mixed.

Pkt., 10c.; $\frac{1}{8}$ oz., 25c.

CHRYSANTHEMUM.

Very showy, effective and desirable as summer flowering plants. Hardy annuals.

Coronaria. Double mixed.

Pkt., 5c.

Frutescens. (Marguerite, or Paris Daisy).

Pkt., 10c.

Carinatum. Single mixed.

Pkt., 5c.

CELOSIA, FEATHERED.

Pyramidalis. Mixed colors of great brilliancy.

Pkt., 5c.

Thompsoni Magnifica Feathered. Splendid new class, for pots or open ground, especially fine for market. Mixed.

Pkt., 10c.

CINERARIA.

Magnificent and indispensable flowering plants for the window garden. The flowers are of white, blue, violet and crimson shades, covering the plant with a sheet of bloom.

Hybrida. Grandiflora, prize mixed. Extra choice.

Pkt., 50c.

CLARKIA.

Handsome, free flowering annuals of easy cultivation. Produce a fine effect massed in beds. Flowers are very bright and attractive. Double mixed.

Pkt., 5c.

CLANTHUS DAMPIERI.

A fine pot plant, bearing clusters of curiously shaped and very brilliantly colored flowers, scarlet with black center; tender perennial.

Pkt., 20c.



CELOSIA, OR COCKSCOMB.

(See cut).

Graceful, free blooming, half-hardy annuals.

Cristata. Finest varieties. Mixed.

Pkt., 5c.

President Thiers. Dwarf, crimson comb.

Pkt., 10c.

CELOSIA—COCKSCOMB

PORTLAND SEED COMPANY'S



COBaea SCANDENS.

A handsome, rapid-growing, climbing plant, having large, bell-shaped flowers, beautiful foliage and peculiarly delicate and curious tendrils. (Plants in season.)

Purple, Pkt., 10c.; ¼ oz., 20c.; White, Pkt., 10c.; ¼ oz., 50c.

COLUMBINE, OR AQUILEGIA.

Sometimes known as Honeysuckle. Produces handsome flowers perennial.

Double White.

Pkt., 10c.

Coerulea. Hybrid Mixed.

Pkt., 10c.

Rose Queen. New.

Pkt., 25c.

Coerulea. Fl. Plena. New. Splendid.

Pkt., 25c.

Best Double or Single Varieties, Mixed.

Pkt., 5c.

COLLINSIA.

This is an interesting, free-flowering, hardy annual. The flowers are in whorls, handsomely variegated in crimson, purple and white. Mixed.

Pkt., 5c.

COLEUS.

Probably the best known and most popular of ornamental foliage plants. Leaves all shades and colors. Tender perennial.

Finest Hybrid Mixed.

Pkt., 15c.

Extra Mixed (Binairy).

Pkt., 50c.

CYCLAMEN.

Beautiful winter and spring flowering plants for the window and greenhouse. Not only are the flowers of striking beauty, but the foliage is also highly ornamental. The colors range through shades of pink, crimson, white, spotted, etc. Delicately fragrant. Bulbs in season. (See cut above.)

Giganteum Hybridum. Mixed. Pkt., 25c.
Papilio. Butterfly. Mixed. Pkt., 50c.

CYPRESS VINE, OR IPOMOEA QUAMOCЛИT.

A climber of rapid growth, having handsome fern-like foliage and a profusion of bright, attractive flowers.

White, scarlet or mixed.
Pkt., 5c.; ¼ oz., 15c.

DRACAENA.

Ornamental, greenhouse plant. Very desirable.

Indivisa Lineata. Narrow, dark foliage. Pkt., 10c.

DAISY, OR BELLIS PERENNIS.

A well-known and popular, low-growing plant bearing beautiful flowers. Hardy perennial.

Longfellow. Double red. Pkt., 15c.; 1-16 oz., 40c.
Double White or Mixed. Pkt., 15c.; 1-16 oz., 40c.

Burbank's New Shasta. Very hardy; profuse bloomers; flowers very large and borne on long stems; single; petals pure, glistening white; center dark.
Pkt., 15c.

ESCHSCHOLTZIA, OR CALIFORNIA POPPY.

These are among our most beautiful and popular annuals, being of the easiest culture and giving great satisfaction. They commence to bloom within a few weeks' time from spring-sown seed and continue to flower profusely until late in the autumn, forming nice, bushy plants, one foot high. (See cut.)

Californica. Single yellow, white, or mixed. Pkt., 5c.; oz., 35c.
Carmine. Pkt., 5c.; oz., 50c.

Mandarin. Inner side of petals rich orange, outer side brilliant scarlet; very striking; single.
Pkt., 5c.; oz., 35c.

Californica. Double mixed. Pkt., 10c.; ½ oz., \$1.00.
(For other sorts see Poppies.)

ECHINOCYSTIS LOBATA,
OR WILD CUCUMBER.

A rapid-growing climber. Very good for covering old fences or trellises. Hardy annual.

Pkt., 10c.; oz., 25c.

FOUR O'CLOCK, OR MIRABILIS.

Marvel of Peru.

A hardy annual, growing luxuriantly in any ordinary soil, and bearing a profusion of bright, handsome flowers of various colors, shades and markings. Flowers open at four o'clock, close in the morning.

Choice Mixed. Pkt., 5c.; oz., 15c.

DAHLIA.

A magnificent, fall-blooming tuberous-rooted plant, which can be readily started from seed.

For Dahlia Roots, see Plant Department.

Double mixed. Pkt., 10c.

Single mixed. Pkt., 10c.

Cactus. New; flowers odd and fantastic in shape; all colors.

Pkt., 10c.

Double mixed. Pkt., 20c.

Twentieth Century. New single Dahlias of recent introduction; flowers large and handsome.
Pkt., 10c.

New semi-double Giant Peony flowered.

Pkt., 20c.

DATURA.

Large, strong-growing plants, trumpet-shaped flowers, white, sometimes tinted with blue. Roots can be preserved in the cellar, like Dahlias.

Fastuosa Huberiana. Double Mixed. Pkt., 5c.



ESCHSCHOLTZIA.

EUPHORBIA.

Fine, ornamental, foliage plants. Hardy annual.

Variegata. Variegated foliage. Pkt., 5c.

FOX GLOVE, OR DIGITALIS.

A tall growing biennial, with large leaves and spikes of vari-colored and spotted flowers. A magnificent plant. Fine for borders or background. Easily grown. Fine mixed or white.

Pkt., 5c.; ¼ oz., 15c.



FORGET-ME-NOT

GERANIUM.

A half-hardy perennial, easily and quickly grown from seed.

Lady Washington. Foliage green; flowers large, handsome, oddly marked, fine for pot culture.

Finest mixed.

Pkt., 25c.

Zonale. Extra choice, single mixed, large flowering. This is the well-known bedding Geranium.

Pkt., 10c.

Zonale. Very finest and newest sorts. Choice mixed. Double.

Pkt., 25c.

GENTIANA.

Fine, showy flowers. Should be in every flower garden. Hardy.

Acaulis.

Pkt., 10c.

GEUM.

Chiloense.

Hardy perennial. Free-blooming plants. Fine for bouquets.

Scarlet. Double.

Pkt., 5c.

GLOBE AMARANTH, OR GOMPHRENA.

An old favorite, everlasting flower. Mixed.

Pkt., 5c.

GYPSOPHILA, OR BABY'S BREATH.

A pretty, free-flowering plant. Fine for bouquets.

Paniculata. Foliage fine; covered with tiny, pure white flowers. Hardy, perennial.

Pkt., 5c.



GYPSOPHILA.

Of rapid growth, and bearing curious fruits of various sorts.

Dipper, bottle, egg-shaped.

Pkt., 5c.; oz., 25c.

Large varieties. Mixed.

Pkt., 5c.; oz., 25c.

Small varieties. Mixed.

Pkt., 5c.; oz., 25c.

HELIOTROPE.

Delightfully fragrant, free-blooming, tender, perennial plants. Splendid for bedding or pot culture. One foot high of spreading habit. The fragrance of its flowers cannot be excelled in exquisite delicacy. Invaluable for bouquets.

Mixed. Choice.

Pkt., 10c.

Mammoth flowered. Blue, white or mixed; very fine.

Pkt., 15c.



HELIOTROPE.

FORGET-ME-NOT, OR MYOSOTIS.

Beautiful, spring favorites, of easy growth, bearing clusters of lovely, small flowers. They are perennials and are hardy enough to remain in the open ground except in very cold latitudes. Fine for borders. (See cut.)

Alpestris. Of trailing habit, with pretty flowers. Blue or mixed.

Pkt., 10c.

Semperflorens. Dwarf; continuous bloomer; blue.

Pkt., 10c.

Victoria. Flowers large, bright, azure-blue; fine for cut flowers.

Pkt., 10c.

GAILLARDIA.

Exceedingly beautiful, half-hardy perennial, making very showy plants, one to two feet high, for the flower garden. Grown in masses they are especially effective; large flowers, two to three inches across, produced from early summer until frost; unrivaled for cutting.

Picta. Large, handsome, mixed flowers. Hardy annual.

Pkt., 10c.; 1/4 oz., 15c.

Picta Lorenziana. Double; finest mixed; annual.

Pkt., 10c.; 1/4 oz., 25c.

Mixed. Many shades of yellow, orange and scarlet.

Pkt., 10c.; 1/4 oz., 15c.

Grandiflora Maxima. Perennial. Golden.

Pkt., 10c.; 1/4 oz., 25c.

GILIA.

Gilias are free-flowering, hardy annuals, one foot high, with finely cut foliage and clusters of small, delicate flowers, white, lilac and rose color; desirable for cutting and suitable for beds, rockwork and edgings.

Mixed.

Pkt., 5c.

GLOXINIA.

Most charming, greenhouse plants of dwarf habit. Their flowers are produced in greatest profusion, and of the most exquisite and gorgeous colors, many of which are magnificently spotted, mottled and blended. Under the commonest culture they bloom continuously for months.

Hybrida Grandiflora. Splendid mixture of finest varieties, mixed.

Pkt., 25c.

Robusta. Erect, hardy, superb mixture.

Pkt., 25c.

GREVILLEA, ROBUSTA.

The Silk Oak. Very beautiful and graceful foliage plant.

Pkt., 10c.

GODETIA.

The Godetias are profuse and constant bloomers, and their delicate tints of crimson, rose and white render them very attractive. Hardy annuals.

Semi-Dwarf. Fine mixed.

Pkt., 5c.

Gloriosa. **Lord Roberts.** Dark red, compact, fine.

Pkt., 10c.

Hollyhock, or Althaea

THE modern Hollyhock is quite different and much more beautiful than the plant of twenty years ago, being much more compact in growth; the flowers are larger, richer colored, and the double varieties are fuller and of better form. For a background to a flower garden there can be nothing better. Hardy perennials; five feet high.

CHATTERS. Superb strain, varieties of greatest prefection.

DOUBLE. White, crimson, pink, yellow, salmon, lilac and rose.

Price, Pkt., 10c.; 1/2 oz., 60c.

MIXED. All double varieties.

Pkt., 10c.; 1/2 oz., 50c.

ALLEGHENY. A popular variety with very large flowers, petals beautifully fringed and crinkled, coloring rich and attractive.

Double Choice Mixed... Pkt., 10c.; 1/2 oz., 30c.

HELICHRYSUM.

Everlasting flower. One of the best for winter bouquets. Hardy annual. **White, yellow and crimson.** Double mixed.

Pkt., 5c.

HIBISCUS.

Strong-growing plants, of very easy culture and exceedingly showy. Has large, cup-shaped flowers. Hardy annual. Extra mixed.

Pkt., 5c.

HUNNEMANNIA, OR GIANT YELLOW TULIP POPPY.

Fumariaefolia. Best of the poppy family for cutting, remaining in good condition for several days. Seed sown early in May will, by the middle of July, produce plants covered with their large buttercup-yellow, poppy-like blossoms, and never out of flower until hard frost.

Pkt., 10c.

HYACINTH BEAN, OR DOLICHOS.

Rapid growing, ornamental, climbing annuals, bearing clusters of beautiful purple and white flowers, followed by highly ornamental seed pods. Mixed.

Pkt., 5c.; oz., 15c.

ICE PLANT.

Pretty, summer, trailing annual for vases and rockwork; leaves covered with ice-like drops.

Pkt., 5c.; oz., 35c.

LANTANA.

A free-flowering, shrubby plant, suitable for outdoor or pot culture. The flowers emit an agreeable odor and are of many shades of purple, orange and white. Half-hardy perennial.

Hybrida Fine Mixed. **Pkt., 10c.; oz., 25c.**

LYCHNIS.

There are few plants that produce more brilliantly colored blossoms than Lychnis. They are borne in clusters and continue fresh and brilliant for a long time. Hardy perennials; one to three feet high.

HAAGEANA HYBRIDA. Mixed. **Pkt., 10c.; 1/2 oz., 25c.**

MIGNONETTE.

A quick-growing annual, highly esteemed for its delicate fragrance. It grows most rapidly and produces the largest and finest spikes of blossoms during cool, moist weather of early spring and late fall months, but will flower freely throughout the summer from seed sown early in spring. A second planting should be made about the first of August to furnish large, fine spikes of flowers during the cool fall months.

ODORATA GRANDIFLORA. Large, well-formed, fragrant flowers.

Pkt., 5c.; oz., 25c.

ALLAN'S DEFIA. A choice strain for forcing. Spikes of enormous size and intensely rich perfume. One of the most desirable for open ground.

Pkt., 10c.; oz., 50c.

MACHET. **White Pearl;** splendid new variety; best white.

Pkt., 15c.; 1/2 oz., \$1.00.

MACHET. **Buby;** dwarf, compact; flowers red; fine.

Pkt., 10c.; 1/2 oz., 50c.

PARSON'S WHITE. Flowers almost pure white; very fine.

Pkt., 10c.; oz., 50c.

GOLDEN QUEEN. Dense, dwarf growth; flowers golden yellow; deliciously fragrant.

Pkt., 10c.; oz., 50c.

NEW ANNUAL HOLLYHOCKS.

Hybrida Semperflorens.

This splendid variety will bloom in August, from spring planting, continuing until frost. This is a great advantage, as other varieties do not bloom until the second year. Try them.

Finest new single or double mixed. **Pkt., 10c.**

LARKSPUR, OR DELPHINIUM.

A very ornamental class of profuse blooming plants. Their tall spikes of many colored flowers produce a striking effect when planted in groups. Hardy annual.

Dwarf Rocket. Finest colors. Double mixed.

Pkt., 5c.; 1/2 oz., 20c.

Tall Branching. Finest colors. Double.

Pkt., 5c.; 1/2 oz., 20c.

Perennial Mixed. Single.

Pkt., 5c.; 1/2 oz., 20c.

Tall Branching. Finest double mixed.

Pkt., 10c.; 1/2 oz., 25c.

Chinese Azureum. Single blue, fine for cutting.

Pkt., 10c.; 1/2 oz., 30c.

LINUM, OR CRIMSON FLAX.

Beautiful and effective; hardy, about 18 inches high; covered with bright, scarlet flowers.

annual.

Pkt., 5c.; oz., 35c.

Perennial Mixed.

Pkt., 5c.; oz., 35c.

LOBELIA.

Delicate, low growing, annual plants of the greatest value for borders, ribbons, edgings, rockwork and hanging baskets. (See cut.)

HYBRID HAMBURGIA. New; light blue with white eye, long drooping flower stalks; fine for hanging baskets or boxes; grows rapidly.

Pkt., 10c.

GRACILIS. Blue, trailing; beautiful for baskets.

Pkt., 10c.; 1/2 oz., 25c.

CRYSTAL PALACE COMPACTA. Plant dwarf; flowers very fine and rich, deep blue; finest for bedding and edging.

Pkt., 10c.; 1/2 oz., \$1.00.

COMPACTA. Finest mixed.

Pkt., 10c.; 1/4 oz., 50c.

WHITE LADY. New white flowering.

Pkt., 10c.; 1/2 oz., 50c.

CARDINALIS, PERENNIAL. Taller than other sorts; flowers rich red.

Pkt., 10c.

LUPIN, OR LUPINUS.

Very desirable shrubby plants, bearing long spikes of various colored flowers.

Annual Mixed.

Perennial Mixed.

Pkt., 5c.; oz., 20c.

Pkt., 5c.; oz., 25c.

NEW DAHLIAS.

See Page 69



MIGNONETTE.

MORNING GLORY.

The tall varieties are popular, well known, rapid-growing climbers of the easiest cultivation. Very fine for covering arbors, trellises, porches, etc. The Minor, or Dwarf varieties flower very freely and do not require support. (See cut.)

Convolvulus, Major. Tall, choice single, mixed, all colors.

Double Mixed Tall. Pkt., 5c.; oz., 15c.

Convolvulus, Minor. Dwarf Mixed. Pkt., 10c.; oz., 25c.

Imperial Japanese Fringed. These have very large fringed flowers in a great variety of the most exquisite colorings; hand-some, variegated foliage. Mixed. Pkt., 10c.; oz., 25c.

Japanese Double Mixed. This double Japanese sort is very fine in leaf, flower and growth. Pkt., 25c.; oz., \$1.00.

MIMOSA, OR SENSITIVE PLANT.

Pudica. Very curious and interesting plant; its leaves closing if touched or shaken. Annual. Pkt., 5c.

MOON FLOWER, OR IPOMOEA MEXICANA
GRANDIFLORA.

Rapid growing climber belonging to the Morning Glory family. The flowers are large, waxy white and very showy.

Pkt., 10c.; 1/4 oz., 20c.

Morning Glory.



Marigold.

MIMULUS.

Moschatus, or Musk Plant. Cultivated for its rich, musky odor. Should have a rich soil and ample moisture. Hardy perennial.

Pkt., 10c.

Tigrinus Nanus, or Monkey Flower. Mixed, beautifully spotted, all colors.

Pkt., 10c.

MARIGOLD, OR TAGETES.

The French and African Marigolds are valuable for their flowers in summer, and can be grown to advantage in little clumps with other plants in the front of shrubberies or in the garden border. Color of flowers, yellow, red, brown and variegated. (See cut.) The African varieties are the taller in growth, and produce large, self-colored blossoms. The French varieties are smaller, some of them being elegantly striped and spotted.

African. Tall or dwarf, double mixed.

Pkt., 5c.; oz., 40c.

French. Tall or dwarf, double mixed.

Pkt., 5c.; oz., 35c.

NICOTIANA.

A very showy plant, producing star-shaped flowers of delicious perfume. Taken up in the fall, cut back and potted, will bloom freely all winter. Half-hardy annual, three feet high.

Pkt., 5c.; 1/4 oz., 25c.

Affinis. White.

Pkt., 10c.; 1/4 oz., 50c.

Hybrida. Splendid mixed.

NEMOPHILA (Love Grove).

NIGELLA.

Hardy annuals of neat, dwarf, compact growth; fine for borders, pot culture or rockeries. Flowers blotched and beautiful. Mixed varieties.

Pkt., 5c.

Love-in-a-Mist, or Devil-in-the-Bush. Compact growing, free flowering plants, with curious looking, showy flowers and finely cut foliage. Hardy annuals. Mixed. Pkt., 5c.

PHLOX DRUMMONDII.

The blooms of Phlox Drummondii are unrivaled for richness and beauty of color, ranging from white to the deepest scarlet and purple. They are abundant, almost covering the foliage, and of long duration. Very desirable, and easily grown. For cutting for bouquets or for bedding in masses they are unsurpassed. Hardy annual, one foot high.

Choice Mixed Pkt., 5c.; 1/4 oz., 50c.

Large Flowering. Mixed; flowers large and brilliant Pkt., 5c.; 1/4 oz., 60c.

Large Flowering. Scarlet or white Pkt., 5c.; 1/4 oz., 75c.

Dwarf. Mixed; finest flowering sorts Pkt., 10c.; 1/4 oz., 50c.

Star Phlox (Cuspidata). Flowers have a distinctive star-like appearance, with white margins, excellent for bouquets. Pkt., 10c.; 1/4 oz., 60c.

PENTSTEMON.

Beautiful, hardy, perennial, herbaceous plants with extremely brilliant blooms. Their bell-shaped flowers are borne on long spikes, and are produced abundantly all summer. Mixed
Pkt., 5c.; 1/4 oz., 75c.

PHLOX DECUSSATA.

Hardy, perennial; mixed. Pkt., 10c.; 1/8 oz., 50c.

PASSION FLOWER, OR PASSIFLORA.

Most interesting and well-known climbers, bearing singularly beautiful flowers.

Mixed Pkt., 10c.

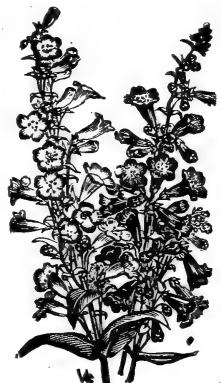
PAMPAS GRASS, or Gynerium Argenteum.

A noble ornamental grass, easily grown from seed, producing majestic plumes, that are invaluable for winter decoration. Pkt., 5c.

New Roses

Guaranteed
True to Name

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PENTSTEMON.

PERILLA NANKINENSIS.

Dark purple foliage plant. Half-hardy annual. Pkt., 5c.

Nasturtium

NASTURTIUMS are hardy annuals, of easy cultivation and flower best where the soil is not too rich. The new hybrids include various shades of rose, salmon, bright red, pale yellow, etc., either self-colored or spotted, mottled, striped and margined.

For covering trellises, fences, arbors, piazzas, trailing from vases, over rockwork, for bedding, etc., nothing can equal the gorgeous effect produced by their marvelous wealth of bloom, borne in uninterrupted splendor from early summer until cut down by frost. The seeds, picked green and pickled in vinegar, have a piquant, appetizing flavor that is a valuable addition to relishes or pickles.

Three Finest New Dwarf Varieties

SNOW QUEEN—New, Fine for Borders.

Flowers white, with a creamy tint. Plants very dwarf and an admirable subject for bedding in conjunction with Blue Lobelia.

Pkt., 10c.; $\frac{1}{2}$ oz., 25c.

“PRINCESS.”

This new dwarf ivy leaved Nasturtium has variegated foliage of great beauty, flowers are primrose with scarlet markings. A novel and most beautiful combination for pots, window boxes or bedding.

Tall.

Pkt., 15c.; $\frac{1}{2}$ oz., 35c.

“GOULDEN MIDNIGHT.”

A unique and desirable type for bedding and pots. Foliage is golden and flowers darkest maroon. A striking and beautiful combination.

Pkt., 10c.; $\frac{1}{2}$ oz., 25c.

One pkt. each of above New Nasturtiums, 30c. postpaid.

FIRE FLAME.

New tall fringed Nasturtium. A splendid novelty of a new and distinct type. “Fire Flame” is a deep, fiery scarlet with edge of petals deeply cut and fringed; is of vigorous growth, and a very free bloomer. Be sure to add Fire Flame to your order.

Pkt., only; each, 20c.

IVY LEAVED

This unique and most beautiful climbing Nasturtium is of running growth with star-like pointed leaves of rich green, veined with white, the young shoots having a marked resemblance to the foliage of the hardy English Ivy. The flowers are of medium size, intense scarlet in color, and of most distinct form. Desirable not only as a bedding variety, but also as a basket or vase plant, where the trailing branches show off the beautiful foliage and star-like, scarlet flowers to the greatest advantage.

Pkt., 10c.; oz., 25c.

TALL OR CLIMBING NASTURTIUMS, LARGE FLOWERING.

Zanderi Nigrum. Dark, rich red, almost black; very fine.

Pkt., 5c.; oz., 15c.

Golden Queen. New, finest and richest pure yellow.

Pkt., 5c.; oz., 15c.

Lilli Schmidt. Handsome, orange scarlet; large.

Pkt., 5c.; oz., 15c.

Crown Prince of Prussia. Flowers rich, dark blood red.

Pkt., 5c.; oz., 15c.

Giant of Battles. Light yellow, spotted with red.

Pkt., 5c.; oz., 15c.

Pearl. Cream white; very fine.

Pkt., 5c.; oz., 15c.

Vesuvius. Salmon rose; leaves dark; fine.

Pkt., 5c.; oz., 15c.

“THE
FLOWER
GARDEN”

282 Pages
\$1.10,
Postpaid.

SPECIAL—Above collection of seven named sorts one packet each, for 25c.

Lobbianum. Choicest Mixed. The very finest flowering kinds, having a richness of color and a variety of brilliant shades and markings hitherto unknown.

Pkt., 10c.; oz., 20c.; $\frac{1}{4}$ lb., 40c.

Lobbianum. Fine Mixed. A very fine grade.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 30c.

Tall Fine Mixed. Good Mixture.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.

DWARF OR TOM THUMB SORTS, LARGE FLOWERING.

Dwarf Pearl. Almost pure white

Pkt., 5c.; oz., 25c.

Ruby King. Ruby red; fine form; dark leaved

Pkt., 5c.; oz., 25c.

Sunlight. Finest of yellows.

Pkt., 5c.; oz., 25c.

Spotted King. Dark yellow, spotted with brown.

Pkt., 5c.; oz., 25c.

Chameleon. New; cream white, spotted with bright scarlet, edged with dark scarlet; plant compact; leaves dark; a beautiful sort.

Pkt., 5c.; oz., 25c.

Midnight. Dark leaved, compact bush; flower rich, dark, intense scarlet; very handsome; excellent for borders.

Pkt., 5c.; oz., 25c.

Dwarf Mixed. Finest varieties.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 30c.

SPECIAL—The above collection of seven packets for 25c—**SPECIAL**.



PANSIES

OUR Pansy Seeds are imported direct from the leading pansy specialists of Europe and are the best selections from the new and improved standard types; being absolutely the finest seed obtainable. It was from these that our new Mastodon Strain was developed and we urge growers to take advantage of this opportunity to secure seed.

For early outdoor bedding, seed should be sown in the early fall, in rich moist garden soil or in cold frames. Spring sowings should be made early.

MASTODON PANSY PLANTS
Feb. to June.
See Plant Dept.

Mastodon Pansies

PHOTO OF SEED PLANT OF OUR "MASTODON" PANSIES.

Steele's Mastodon Pansies

FOR 15 years the Steele Pansy Gardens have grown our Giant Pansies and co-operated in securing the finest strains from the world's most celebrated growers. These have been carefully reselected and bred up to their present surpassing excellence, and for giant size, substance, form and coloring we have never seen Pansies to compare with them. Named varieties and special strains are grown separately and the seed collected by hand and carefully blended into what we believe to be the finest mixture ever offered. This is the first opportunity to secure **STEELE'S MASTODON PANSY SEED, DIAMOND MIXED**, and as only a small amount will be offered, you must order NOW.

Price per Pkt., 25c.; Trade Pkt., \$1.00.

Our Gold Medal Collection Giant Pansies

One Pkt. each of the 10 Varieties, \$1.00.

ADONIS—A distinct and beautiful shade of light blue with white center and dark blotch, a most pleasing and attractive variety.

Pkt., 10c.

BRIDESMAID—A beautiful clear white with shining rose colored blotch, a rare and desirable new pansy of the largest size.

Pkt., 15c.

FIRE KING—Lower petals margined white, with large magenta blotch that has a yellow margin; upper petals bright reddish bronze.

Pkt., 10c.

GOLDEN QUEEN—A rich pure yellow of the grandest form and size. A valuable addition to the yellows, which are very hard to produce in the Giant strains.

Pkt., 10c.

GIANT DARK BLUE—A splendid blue black, very elegant, and of good substance; should be grown by everyone.

Pkt., 10c.

GIANT STRIPED—A superior strain of truly giant pansies, with the most beautiful striped markings in the richest dark shades. Very popular in Europe.

Pkt., 10c.

MADAME PERRET—A beautiful and distinct type with edges of petals frilled—bordered white, colors are dark wine—pink and red, beautifully veined. The earliest of the Giants, has sweetest perfume and keeps up its size of flower longer than any other. We offer the best strain.

Pkt., 15c.

RUBY KING—Rich shades of red, a superb variety, of fine form and substance.

Pkt., 15c.

SNOW FLAKE—A grand pure white, of extra fine quality.

Pkt., 10c.

VULCAN—A magnificent new dark glowing red with 5 large black spots; blooms of perfect form and great substance, but its chief value lies in the superb coloring which has never been attained before. Be sure to try "Vulcan."

Pkt., 25c.

Popular Large Flowering Pansies

EMPEROR WILLIAM—A dainty cornflower blue, very showy; a splendid variety of large size and good substance.

Pkt., 10c.

KING OF THE BLACKS (Giant.)—Immense velvety black flowers of the finest quality; the largest and best black pansy.

Pkt., 10c.

TRIMARDEAU GIANTS—Of remarkably large size and robust growth; very fine.

White, Yellow, Striped, Black, Blue or Mixed.

Pkt., 10c.; $\frac{1}{4}$ oz., 60c.; oz., \$2.00.

MASTERPIECE—GIANT RUFFLED—The mammoth size, richness and beauty of colorings and frilled or ruffled character of the petals, make Masterpiece one of the most distinct and interesting Pansies ever developed.

Pkt., 25c.

PRINCE BISMARCK—Light brown shades with black eye very beautiful and distinct; true giant variety.

Pkt., 10c.

PRINCE HENRY—A new giant variety, of a brilliant, dark indigo blue, with violet luster, each petal having a large dark brown, veined blotch. Edges of petals, slightly ruffled.

Pkt., 15c.

SALVIA, or Flowering Sage.

Very ornamental; flowers borne in spikes of fiery red or crimson, and continue in bloom in open ground until after severe frosts. Start in heat and transplant into light soil, one to two feet apart. Excellent for bedding in masses or single planting. Hardy annuals.

Salvia Zurich, New Dwarf Early. The finest of all Dwarf Salvias. Very floriferous.

Pkt., 15c.

Salvia Splendens. Brilliant Scarlet.

Pkt., 10c.; $\frac{1}{4}$ oz., 50c.

Bonfire (Clara Bedman). One of the finest Salvias ever introduced; compact bush about two feet in height and diameter. Its erect spikes of flowers of brilliant scarlet stand clear above the dark green foliage and completely cover the plant.

Pkt., 15c.; $\frac{1}{4}$ oz., \$1.00.

For **Salvia** Plants, see Plant Department.

STOCKS—Double Ten Weeks.

These popular flowers are easily grown, and are so highly fragrant and of such beauty that they deserve a place in every garden. They are great improvements over the Gilliflowers of the olden times, being much larger and more densely double, and of a greater variety of colors.

THREE FINE NAMED STOCKS.

Splendid for Forcing.

SNOWFLAKE.—Large double snow white flowers; dwarf, ten weeks.

Pkt., 15c.

BEAUTY OF NICE.—Very large flowers of a delicate flesh pink. Extra fine.

Pkt., 15c.

PRINCESS ALICE.—Large flowering white, fine for cutting. Extra large spike.

Pkt., 10c.

Dwarf Large Flowering. White, Scarlet, Rose, Light Blue or Mixed.

Pkt., 10c.; $\frac{1}{8}$ oz., 50c.

Emperor, or Perpetual. Mixed.

Pkt., 10c.; 1-16 oz., 50c.

Winter, or Brompton. Mixed.

Pkt., 10c.; 1-16 oz., 50c.

Giant Perfection. Handsome pure white.

Pkt., 15c.; $\frac{1}{8}$ oz., 75c.

Giant Perfection. Double mixed.

Pkt., 10c.; $\frac{1}{8}$ oz., 50c.

Virginian Stock.

A fine, early flowering plant. Hardy annual.

Mixed

Pkt., 5c.; $\frac{1}{4}$ oz., 15c.

SALPIGLOSSIS.

Produces very showy, funnel-shaped flowers of large size. Fine for beds. Half-hardy annuals.

Fine Dwarf. Mixed.

Pkt., 5c.; $\frac{1}{4}$ oz., 25c.

Grandiflora. Mixed. Large flowering.

Pkt., 10c.; $\frac{1}{4}$ oz., 35c.

SAPONARIA.

Pretty, dwarf bedding plants. Red, white and scarlet flowers. Hardy annuals.

Fine Mixed.

Pkt., 5c.

SCHIZANTHUS.

Beautiful, garden annuals, flowers charmingly fringed and delicately colored; one to two feet.

Mixed Colors.

Pkt., 5c.; $\frac{1}{4}$ oz., 15c.



TRUE IRISH SHAMROCK
Plants in season, 25c each.



Primula Sinensis.

PRIMULA, or Primrose.

The first three varieties named below are hardy, early blooming garden plants, and the others beautiful, winter blooming house plants. Their various forms and blending of colors are exceedingly pleasing and effective. They thrive best in a sandy loam and leaf mold. (See cut.)

Polyanthus. Early blooming, dwarf growing plants. Valuable for outdoor bedding. Mixed colors.

Pkt., 10c.; 1-16 oz., \$1.00

Vulgaris. Yellow, common, English Primrose.

Pkt., 10c.; $\frac{1}{8}$ oz., \$1.00

Japonica, or Japanese Primrose. The beautiful, large various colored flowers stand in whorls, pyramidal-like arranged on short flower stems; one foot high; though perennial, new plants flower more freely, and seed should be sown every year. Mixed varieties.

Pkt., 15c.; 1-16 oz., \$1.00.

Sinensis, or Chinese Primrose. The beautiful, large fringed flowers stand in pyramids arranged on short flower stems. Blossoms of every shade of color, from pure white to deep crimson, and even deep blue; especially fine for winter and spring flowers in the house; easily grown; free bloomers. (See cut.) Finest mixed

Pkt., 25c.; 1-32 oz., \$2.00.

Sinensis. Pure white or red.

Pkt., 25c.

Sinensis. Alba. New; finest large white, with yellow eye.

Pkt., 50c.

Sinensis. Double finest mixed.

Pkt., 50c.

Obconica Grandiflora. A lovely profuse bloomer, bearing beautiful single flowers. This is really an ever-blooming plant, producing elegant clusters of flowers continuously throughout the year.

Pkt., 10c.; 1-16 oz., \$1.50.

PRIMROSE, EVENING, or Oenothera.

The Oenothera, or Evening Primrose, produces large, showy blossoms, which are fully expanded only during the evening and early in the morning. The flowers, which are from three to four inches across, attract much attention on account of their size, beauty and the rapidity with which they open. They are constant and prolific bloomers.

Fine Mixed.

Pkt., 5c.; $\frac{1}{4}$ oz., 25c.

SHAMROCK.

True Shamrock Seed is very rarely offered for sale in this country. It is a hardy perennial and will thrive in any good garden soil.

Price. Pkt. of 50 Seeds, 25c.

STATICE, OR SEA LAVENDER.

Beautiful for winter bouquets; flowers very pretty.

Annual Varieties. Mixed.

Pkt., 5c.

Perennial Varieties. Mixed.

Pkt., 5c.

STIPA PENNATA.

Grown for their plumes.

Pkt., 10c.

SCABIOSA.

Sweet Scabious, or Mourning Bride.

Free-flowering annuals; colors, white, carmine, lilac, maroon, etc. Very effective for garden decoration and valuable for cutting.

Dwarf or Tall Double Mixed.

Pkt., 5c.; $\frac{1}{4}$ oz., 15c.

SMILAX.

Charming, tender, perennial climber for greenhouse or window gardens. The foliage and stems are of a pleasing light green; very graceful; excellent for decoration. (See Plants).....

Pkt., 10c.; $\frac{1}{4}$ oz., 25c.

SNAPDRAGON, or Antirrhinum.

One of the most useful and showy of border plants, of almost every color, and striped as beautifully as Carnations. They have recently been much improved and are now really magnificent. Hardy perennial.

Tall, Finest Mixed..... Pkt., 5c.; $\frac{1}{4}$ oz., 20c.

Dwarf, Finest Mixed..... Pkt., 5c.; $\frac{1}{4}$ oz., 20c.

Pure White. Dwarf..... Pkt., 10c.; $\frac{1}{4}$ oz., 30c.

Firey. Dwarf; scarlet Pkt., 10c.; $\frac{1}{4}$ oz., 30c.

SUNFLOWER, or Helianthus.

Stately growing annuals with immense golden yellow flowers; effective for garden decoration.

Double Dwarf. Covered with three-inch double flowers of brightest golden yellow.

Pkt., 5c.; oz., 25c.

Globosus Fistulosus. Saffron, very large, double and handsome. Pkt., 5c.; oz., 25c.

Multiflora. Beautiful, double yellow flowers.

Pkt., 5c.; oz., 25c.

Mammoth Russian. See Field Seeds.

SWEET ROCKET, or Hesperis.

An old hardy garden favorite. Fragrant white flowers; 2 to 3 feet.

Pkt., 5c.; $\frac{1}{4}$ oz., 15c.

SWEET SULTAN, or Centaurea.

Favorite annual of easy culture. Showy for the garden and greatly prized for bouquets. The large heads of bright flowers are very fragrant; $1\frac{1}{2}$ feet.

Mixed Colors. Purple, White, etc.

Pkt., 5c.; $\frac{1}{4}$ oz., 15c.

SWEET WILLIAM, or Dianthus Barbatus.

A well-known, remarkably free-flowering plant, of brilliant colors, ranging from snow white to darkest crimson and purple. They emit a very delicate and refreshing fragrance. Hardy perennial.

Single Mixed. Very beautiful.

Pkt., 5c.; $\frac{1}{2}$ oz., 25c.

Dunnettii. Dark crimson, single.

Pkt., 5c.; $\frac{1}{2}$ oz., 30c.

Pure White. Single. Pkt., 5c.; $\frac{1}{2}$ oz., 50c.

Double Mixed. Pkt., 10c.; $\frac{1}{2}$ oz., 50c.

THUNBERGIA.

Rapid-growing annual climbers; splendid for trailing over trellises, fences, etc.; beautiful flowers borne in profusion; buff, white, orange, etc.; four to six feet high.

Mixed Colors..... Pkt., 5c.; $\frac{1}{4}$ oz., 25c.

TRITOMA.

Sometimes called Red Hot Poker. This is a fine, handsome plant. It is hardy, though requiring some protection through the winter. The flowers are produced in large spikes of brilliant, rich flowers. Cut flowers keep a long time. Half-hardy perennial.

Uvaria. Dazzling orange red..... Pkt., 15c.

VINCA.

Tender perennial. Fine for pot culture. Flowers white and pink.

Mixed Pkt., 10c.

VERBENA.

Very few annuals will make such a gorgeous display during the summer months, or furnish more flowers for cutting, than the Verbena. Start seed in the house or under glass early in the spring, and transplant after three or four inches of growth. They flower in July and continue strong and healthy until destroyed by frost.

Hybrida Choicest Mixed.

Very finest. Pkt., 10c.; $\frac{1}{4}$ oz., 50c.

Mammoth Mixed.

Selected; extra large, fine. Pkt., 15c.; $\frac{1}{4}$ oz., 75c.

Fine Mixed.

Pkt., 5c.; $\frac{1}{4}$ oz., 35c.

Candidissima.

Pure white. Pkt., 10c.; $\frac{1}{4}$ oz., 50c.

Scarlet Defiance.

Fiery Scarlet. Pkt., 10c.; $\frac{1}{8}$ oz., 50c.

Pink Shades.

Pkt., 10c.; $\frac{1}{4}$ oz., 50c.

Coerulea.

Bright blue. Pkt., 10c.; $\frac{1}{4}$ oz., 50c.

LEMON VERBENA.

Every garden should have a few plants of this fragrant favorite. Its pale green foliage goes well with any flower.

Pkt., 10c.

VIOLET.

Viola Odorata is the well-known English Violet, a free-flowering, hardy perennial. Easily grown from seed, though somewhat slow in germinating; succeeds best in partially shaded moist places.

The Czar. Finest forcing Violet. Very large, dark blue..... Pkt., 25c.; $\frac{1}{4}$ oz., \$1.00.

Odorata Blue. Very fragrant..... Pkt., 10c.; $\frac{1}{8}$ oz., 50c.

Odorata White. Very fragrant..... Pkt., 10c.; $\frac{1}{8}$ oz., 50c.

Odorata. Finest mixed..... Pkt., 10c.; $\frac{1}{8}$ oz., 75c.

Valeriana.

Fine border plants; sweet scented flowers.

Fine Mixed..... Pkt., 5c.

VISCARIA—Rose of Heaven.

Their profuseness of bloom will always rank them among general favorites.

Fine Mixed..... Pkt., 5c.

WALL FLOWER.

(Cheiranthus Cheri.) Produces spikes of beautiful, exceedingly fragrant flowers. Half hardy perennial.

Cloth of Gold. Large, fine, single..... Pkt., 10c.; $\frac{1}{4}$ oz., 35c.

Goliath. Single, extra large, fine dark brown, very early; fine for forcing..... Pkt., 15c.; $\frac{1}{4}$ oz., 50c.

Mixed. Single, large flowering..... Pkt., 5c.; $\frac{1}{4}$ oz., 25c.

Parisian Forcing. Single..... Pkt., 10c.; $\frac{1}{4}$ oz., 35c.

Finest Double Mixed. Branching..... Pkt., 10c.; $\frac{1}{8}$ oz., 75c.

Zea, or Ornamental Maize.

Japonica Variegata. Finest mixed. All varieties.

Pkt., 5c.; oz., 20c.

Gracillima Mixed..... Pkt., 5c.; oz., 20c.

ZINNIA ELEGANS.

Of easiest cultivation and should be in every collection. Half hardy annuals.

Tall Double Mixed..... Pkt., 5c.; $\frac{1}{4}$ oz., 25c.

Dwarf Double Mixed..... Pkt., 5c.; $\frac{1}{4}$ oz., 25c.

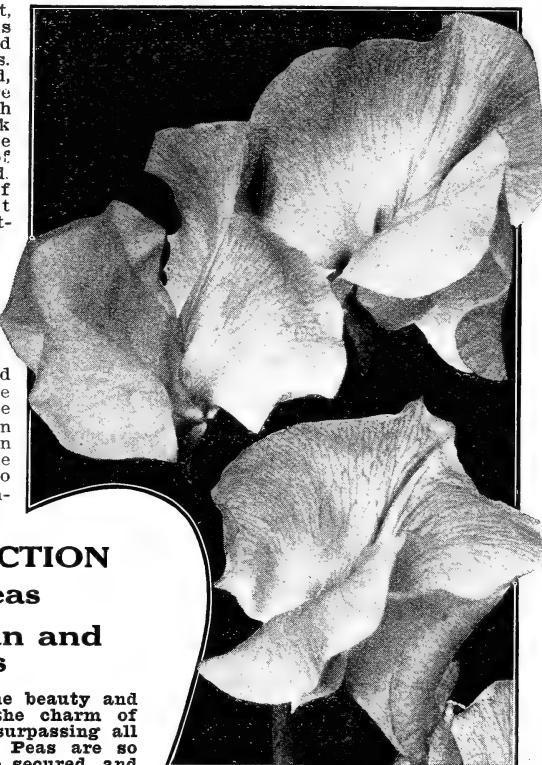
Dwarf Scarlet..... Pkt., 5c.; $\frac{1}{4}$ oz., 25c.

SWEET PEAS

OUR Famous "Diamond Quality" Sweet Peas are selected with critical care and we offer the best productions of the foremost growers, including the latest, most valuable novelties. We conduct careful trials and, for quality and assortment of varieties, our stocks are unsurpassed. Although we list only those we consider best, we can supply any variety in commerce, and special orders will receive careful attention.

CULTURE: First and most important, plant as early in the spring as the conditions will permit. If the ground is well drained earlier flowers can be had from fall plantings. The ideal soil is cool, moist, and well drained, and should be dug up the previous fall, manure well worked in, and left to lie in the rough through the winter. In the early spring work this down enough to plant, which can be done before conditions will permit working of ground that has not been previously prepared. This gives an earlier and better start than if you wait until spring to work your soil, but late spring plantings will often give very satisfactory results in some sections.

Seeds should be sown at the rate of one ounce to fifteen feet. Make a trench about three or four inches deep, planting the seeds in the bottom about two inches deep, pressing the soil down firmly. After the plants are well up, thin to four or five inches apart and draw the soil around them until the trench is filled above the level. This gives a depth to the roots, preserving the moisture. Keep the ground well worked and water as needed, an occasional thorough soaking being better than a daily sprinkling. Keep the flowers cut close and a pruning of the tips of the vines will also aid in prolonging the season of bloom and insuring better flowers.



1911 DIAMOND COLLECTION

12 Superb Sweet Peas

Including Latest European and American Novelties

Never before has anything approaching the beauty and splendor of this assortment been offered, the charm of color, grace of form, and wealth of bloom surpassing all older varieties. Many of these new Sweet Peas are so rare that only a few packets of seed can be secured, and your order should be sent in at once.

For Early Orders we Offer the entire Collection, 12 Pkts., \$1.75, Postpaid

DAINTY—Spencer. A pure, glistening white with distinct margining of bright rose pink; comes four blossoms on long stems. Dainty is all its name implies and is the best picotee edge yet produced; very large and wavy. **Pkt., 15c.**

AMERICA—Spencer. The largest and finest of its class. Pure satiny white, striped and splashed brilliant crimson; 4 flowers of perfect form borne on long stems. **Pkt., 15c.**

ETHEL ROOSEVELT—Spencer. This is the season's finest offering, described by the originator as of the most perfect Spencer form; ground color a pleasing primrose or straw, overlaid with dainty flakes and splashes of blush crimson, giving warmth and golden tinting to the yellowish groundwork. Gives novel and beautiful color effect when bunched. **Pkt., 25c.**

EMILY ECKFORD—Spencer. A beautiful soft purple mauve, turning to blue, of finest form and substance; 4 large, wavy blooms on each long stem. A very desirable new Spencer. **Pkt., 15c.**

FLORENCE NIGHTINGALE—Spencer. Finest new lavender, of immense size. Bold, erect flowers of a charmingly soft, rich lavender with very delicate suffusion of rose; a beautiful, self-colored flower, frilled and waved. Bears four blooms on extra long stems. **Pkt., 25c.**

W. T. HUTCHINS—Spencer. A magnificent buff, overlaid with bright blush pink, lemon throat. A fine, large flower, crinkled and waved, of the most advanced Spencer form. Very vigorous, free blooming, with long stems. **Pkt., 15c.**

HELEN SCOTT—Spencer. Nothing yet offered equals this magnificent giant white. Of perfect Spencer form, the large, gracefully poised flowers, on long stems, are simply perfection. Vigorous, free blooming. Stock is of our own growing. **Pkt., 15c.**

MAUD HOLMES—Spencer. A brilliant, sun-proof crimson, of the largest size. Of true Spencer form, wavy and fluted. The perfect blooms are carried on extra long stems. A crimson of real merit. **Pkt., 15c.**

QUEEN ALEXANDRA—Spencer. We will all welcome Queen Alexandra in Spencer form, as there is no better bright, intense scarlet, sun-proof Sweet Pea. Of large, full, waved form. Free flowering and vigorous. **Pkt., 15c.**

ROSE DU BARRI. A truly marvelous new Pea, the name suggesting the color, which is a rich, deep carmine rose and orange, an entirely new and distinct shade. While of the Grandiflora type, Rose du Barri is large and full, slightly waved, of unique coloring and great beauty. Unsurpassed for decorations or use in artificial light. **Pkt., 15c.**

SATIN QUEEN—Spencer. A new delicate glistening pink, shading to dainty primrose; a most charming flower of graceful poise, large, wavy and ruffled, free flowering, long stems, a royal beauty. **Pkt., 15c.**

SENATOR SPENCER. Of finest Spencer form and largest size. The coloring is a combination of deep claret and chocolate, striped and flaked on a light heliotrope ground. The coloring, though dark, is brilliant and attractive. A free flowering, vigorous grower of the greatest merit. **Pkt., 15c.**

STEET PEAS—Continued

New Spencers

A Splendid Collection, Including the Best of the 1910 Novelties.

THE new "Spencer" type has lovely waved and fluted flowers of gigantic size, and, in exquisite coloring, length of stem and lasting qualities, are much superior to the older types. "Spencers," however, are very shy seeders and require much careful selection to develop fixed types. The seed is therefore scarce and cannot be cheaply produced.

Apple Blossom Spencer. A truly giant flower; color standard rose with deeper veining, wings light carmine, ground color, primrose.

Price, Pkt., 10c.; $\frac{1}{2}$ oz., 20c.; oz., 35c.

Asta Ohn. Lavender, suffused with mauve; of perfect form, largest size, 4 blossoms on long, strong stems; very vigorous.

Price, Pkt., 10c.; $\frac{1}{2}$ oz., 20c.; oz., 35c.

Audrey Crier. Standard and wings buff and blush, beautifully margined and shaded light rose.

Price, Pkts. 15c.

Aurora Spencer. Ground color cream white, exquisitely flaked and mottled, rich orange salmon, extra large, free-blooming.

Price, Pkt., 10c.; $\frac{1}{2}$ oz., 30c.; oz., 50c.

Carmine Spencer. Our own selection, a deep rosy carmine of largest size, open form, beautifully waved; is much larger than the original strain.

Price, Pkts., 10c.; $\frac{1}{2}$ oz., 30c.; oz., 50c.

Clara Curtis. A Primrose Spencer of the finest form, large size and a deeper shade than Primrose Spencer. A rare and beautiful color.

Price, Pkts., 10c.; $\frac{1}{2}$ oz., 25c.; oz., 40c.

Constance Oliver. A clear, rich pink on cream ground, of true Spencer type; best of its color.

Price, Pkt., 10c.; $\frac{1}{2}$ oz., 25c.; oz., 40c.

Countess Spencer—Pink. The first Sweet Pea of the Spencer type. Flowers extremely large, beautifully expanded, crumpled and waved. Color silvery white, suffused and tinted with soft shell pink, deeper at the outer edges.

Price, Pkt., 10c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.

Evelyn Hemus. Buff on cream ground, shading to yellow; edged terra-cotta pink. A beautiful and distinctive Spencer.

Price, Pkt., 10c.; $\frac{1}{2}$ oz., 25c.; oz., 40c.

Florence Morse Spencer. Delicate blush with pink margin; very large, open, wavy form of the finest Spencer type.

Price, Pkt., 10c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.

Geo. Herbert. Our own select strain; a bright, rosy-carmine, open form, beautifully waved; a magnificent, vigorous Sweet Pea of giant size.

Price, Pkt., 10c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.

HeLEN Lewis. A giant flower of perfect form; standard rich crimson orange, wings orange rose; open form, full, wavy.

Price, Pkt., 10c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.

Juanita. A unique and pleasing combination of pearly gray white ground, splashed and striped lavender.

Price, Pkt., 10c.; $\frac{1}{2}$ oz., 25c.; oz., 40c.

King Edward Spencer. Bright crimson scarlet, largest size, wavy standard, drooping wings, very long stems; one of the finest bright reds.

Price, Pkt., 10c.; $\frac{1}{2}$ oz., 20c.; oz., 35c.

Lovely Spencer. Standard and wings of light blush pink with blotch of rose at the base; entire flower suffused with soft buff.

Price, Pkt., 10c.; $\frac{1}{2}$ oz., 25c.; oz., 40c.



OTHELLO SPENCER

Mrs. Routzahn. Color, a soft straw tinted with blush pink, shading to apricot and rose at the edges, with a distinct rose margin; of immense size; one of the finest Spencers.

Price, Pkt., 10c.; $\frac{1}{2}$ oz., 20c.; 1 oz., 35c.

Othello Spencer. Very deep maroon of largest Spencer type; wings very wavy, large and drooping; the finest of its color.

Price, Pkt., 10c.; $\frac{1}{2}$ oz., 25c.; oz., 40c.

Paradise. Most beautiful of the light pinks: flowers four to the stem, of grand size and substance, finely expanded and beautifully waved, perfectly self-colored; the most delicate soft pink.

Price, Pkt., 10c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.

Primrose Spencer. Color, a true primrose. Very vigorous, free-flowering, excels in beauty of form, length of stem and keeping qualities.

Price, Pkt., 10c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.

Lucy Hemus. A lovely, erect flower, with carmine pink-grained standard, creamy buff wings, with bright rose shading.

Price, Pkt., 10c.; $\frac{1}{2}$ oz., 20c.; oz., 35c.

Marjorie Willis. A brilliant rose carmine of the Marie Corelli class and considered a better flower, of finest Spencer form, the long stems carrying four well-placed flowers; one of the best.

Price, Pkt., 10c.; $\frac{1}{2}$ oz., 25c.; oz., 40c.

Miriam Beaver. A rare new variety of great promise, but not entirely fixed; color is apricot pink, base of petals tinted lemon.

Price, Pkt., 15c.; $\frac{1}{2}$ oz., 30c.; oz., 50c.

Mrs. Henry Bell. A beautiful flower with buff ground delicately suffused pink with a deep rose margin. The very finest of its color. Large vigorous, and comes true.

Price, Pkt., 10c.; $\frac{1}{2}$ oz., 30c.; oz., 50c.

Mrs. Walter Wright. A distinct bright shade of rosy mauve, extra large, fine flower, waved and ruffled, vigorous and free flowering.

Price, Pkt., 10c.; $\frac{1}{2}$ oz., 30c.; oz., 50c.

Prince of Wales. Deep rose, of fine Spencer form, one of the best of this color.

Price, Pkt., 10c.; $\frac{1}{2}$ oz., 25c.; oz., 40c.

Paradise Red Flake. Delicate paradise pink ground splashed and suffused with red, a splendid flower of pleasing form.

Price, Pkt., 10c.; $\frac{1}{2}$ oz., 30c.; oz., 50c.

SWEET PEAS—Continued

Ramona Spencer. Pure white with light carmine and blush stripes; large, good form, free flowering.

Price, Pkt., 10c.; 1/2 oz., 20c.; oz., 35c.

Ruby Spencer. Upright orange standard, with rosy salmon wings, a richer, better color than St. George, and a large true Spencer.

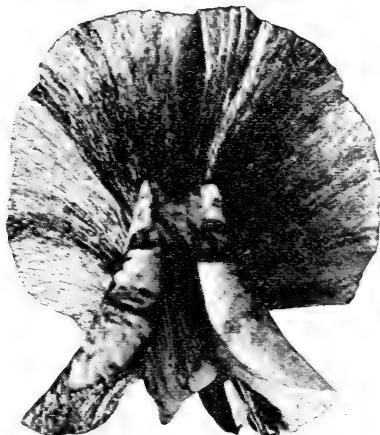
Price, Pkt., 10c.; 1/2 oz., 25c.; oz., 40c.

White Spencer. A pure white flower of enormous size, beautifully crinkled and fluted, of splendid substance.

Price, Pkt., 10c.; 1/2 oz., 15c.; oz., 25c.

NITRO CULTURE

For Sweet Peas. See Index



SENATOR SPENCER.

New "Unwins"

10 Splendid New Sweet Peas in This Popular Class.

THE "UNWINS" resemble the Spencer type, although being of entirely different origin. They are not quite so large as the Spencers, but of fine form and substance, very vigorous and free-flowering, and always come true. In this respect they are superior and more dependable than Spencers, which often "sport" in the most unaccountable manner. For substance, color and bloom, Unwins are unsurpassed.

Price, except where noted, Pkt., 5c.; oz., 20c.; 1/4 lb., 60c.

Chrissie Unwin. Beautiful cherry scarlet, self-color, wavy standard, finest form.

E. J. Castle—Crimson Rose. A magnificent open form flower of grandest size and unique coloring, being a rose crimson veined deeper rose, its brilliancy being enhanced by artificial light; fluted border.

Gladys Unwin—Light Pink. A large, bold flower, not hooded, but with standard and broad wings. Of the new orchid-flower type, this is similar to Countess Spencer, but several shades lighter in its lovely pink color.

Nora Unwin—White. A grand new pure white of the same beauty of form, waved and fluted standard and wings, as Gladys Unwin. Flowers of grand substance, borne three on long stems. This pea was given an award of merit at the trials of the N. S. P. S., Reading, England, and is one of the finest whites.

Prince Olaf. A fine new Unwin of largest size. Flaked and striped blue on a white ground.

Pkt., 10c.; oz., 25c.

Frank Dolby. Color delicate light lavender of great beauty, bold, wavy standard with widely spreading fluted wings.

Mrs. Alfred Watkins. Color of standard pink, shading to buff and blush at edges. Wings blush shading to rose edge. Magnificent flowers of large, open, wavy form. A splendid new Pea.

Phyllis Unwin—Deep Rose. The largest of the Unwin types, beautifully waved and crinkled, standard upright, wings broad. Flowers 3 to 4 on long stems. Color a rare shade of deep rose self-color. Phyllis Unwin is a fixed type and will come true from seed.

St. George. Brilliant orange standard, the large wings a distinct orange-carmine; does not burn in the sun, and is the finest of all the orange shades.

Price, Pkt., 10c.; oz., 25c.

Select List of Finest Large Flowering Sweet Peas, the Best of Their Color and Type.

Prices, unless otherwise stated, 5c. per Pkt.; 10c. per oz.; 20c. per 1/4 lb.; 60c. per lb., post paid.

WHITE.

Dorothy Eckford. Pronounced by Sweet Pea experts to be the grandest pure white yet seen of the grandiflora type. Grows an enormous mass of bloom.

RED, SCARLET AND MAROON.

Queen Alexandra. An intense bright scarlet of grand substance; a bold, robust flower of giant size and finest form, is sun-proof, very vigorous and free flowering.

King Edward VII. A lovely, intense crimson. A truly giant-flowered variety. The finest crimson to date. Strong stems and growth.

Prince of Wales. Rose crimson, fine sort.

Lord Rosebery. Fine form and substance; very free-flowering and robust. The flowers borne on long stems, are of a rose carmine, showing veins of deeper rose.

Black Knight. Large size; a rich, dark claret, almost black; somewhat veined.

Black Bird. Deepest maroon with a suffusion of intense violet, one of the darkest varieties; a splendid vigorous Sweet Pea of largest size.

PINK AND WHITE.

Earliest of All. An improved strain of the very popular Blanche Ferry, beginning to flower fully a week earlier.

Blanche Ferry. Standard wide and erect,

bright rose-pink; wings are creamy white, tinted with rose.

BLUE AND WHITE.

Helen Pierce. The most beautiful bright shade of true blue mottled on a brilliant pure white ground; 3 or 4 blossoms on long stem. A grand flower of the largest size; very free and vigorous.

Maid of Honor. Flowers beautifully shaded with light blue on a white ground and boldly edged, deep rich violet; very dainty.

Finest Large Flowering Sweet Peas—Continued

PINK—Deep Shades.

Boltons Pink. A rare orange pink of great brilliancy and beauty, not injured by the sun; **Janet Scott.** A large, grand flower; deep, rich pink.

Jeanie Gordon. Very attractive; bright rose, shaded cream; slightly hooded; flowers large.

PINK—Light Shades.

Countess of Lathom. Fine, large flowers. A soft, cream tint heavily shaded with soft flesh-pink in the center of the standard and wings, shading much lighter at the edges.

Dainty. Large flowers, white with pink edge.

Lovely. The most beautiful shades of soft shell-pink, changing to very light rose at the outer edges. Grand flowers of large size.

Prima Donna. A most beautiful bright shade of blush-pink. Flowers of large size and finest form.

CREAM OR LIGHT YELLOW

Golden-Rose. The large flowers are of fine open form, with standard gracefully fluted. A clear crimson-yellow, beautifully flushed with rosy pink.

Hon. Mrs. E. Kenyon. Rich, primrose. A bold, giant flower. The best in this shade.

Sybil Eckford. A unique shade of apricot-lemon; one of the finest Eckfords.

DOUBLE SWEET PEAS.

Mixed. These have two to three standards and frequently three wings. The petals are beautifully incurved and frilled.

Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.00.

Phenomenal. This variety is practically a double Lottie Eckford, being white shaded and edged with blue. The blossoms are large and nearly always double.

Pkt., 10c.; ½ oz., 15c.; oz., 25c.

White Wonder. Best double white, often producing 6 or more flowers on long stems; large, free-blooming and vigorous.

Pkt., 10c.; oz., 20c.

Sweet Peas in Mixture

DIAMOND MIXTURE.

This is the most perfect blend of the finest named varieties it is possible to produce. As formerly, this mixture will contain the novelties of the preceding season, and the addition of the rare Spencer types will complete the grandest mixture of new large-flowering Sweet Peas ever grown. It will delight the most critical; if you are undecided as to the varieties or colors you want, buy the "Diamond Mixture."

Sold in 1 oz. sealed pkts. only, at 15c each; two for 25c.; 5 for 50c.; 12 for \$1.00. Not sold in bulk.

OUR SUPERB MIXTURE.

True Spencers Only.

A splendid mixture, carefully proportioned and blended to produce pleasing and harmonious combinations of color, containing the most beautiful shades and variations of the wonderful Spencer types. These are not seedlings, but carefully selected named varieties that retain all their purity and brilliancy of color.

Price, Pkt., 10c.; oz., 35c.

PERENNIAL PEAS

Or Lathyrus Latifolius.

In general appearance these are the same as Sweet Peas, but the flowers are not so fragrant, they bloom through a long season, are perfectly hardy and will live for years.

Bed, White or Mixed. **Pkt., 10c.; oz., 35c.**

LAVENDER.

Flora Norton. A beautiful rich lavender, free from mauve or pink; large.

Lady Grisel Hamilton. Most attractive light lavender shading; flowers of large size.

BLUE AND PURPLE.

Captain of the Blues. The flowers have the appearance of being a true blue.

Mrs. Geo. Higginson, Jr. A new shade, "sky blue"; good size.

Navy Blue. Large flowers, deep, glowing violet-purple, having the effect of a dark navy blue.

Romolo Piazzini. A rosy purple, quickly changing to intense violet blue; the only Pea of its color; a grand variety.

Lord Nelson, or "Brilliant Blue." A brilliant dark navy blue with tips of wings a lighter blue. Giant flowers, slightly hooded.

ORANGE AND SALMON.

Henry Eckford. A distinct orange scarlet of the finest form and largest size; as beautiful under artificial light as in daylight.

Lady Mary Currie. Large, salmon-pink, shaded with carmine; finest of its color.

Miss Willmott. Described as an "orange-pink" delicately shaded rose. Enormous flowers, borne erect on long, stiff stems.

Venus. Lovely salmon-buff, shaded with rosy pink. Fine, large flowers.

STRIPED AND VARIEGATED.

America. Bright red on a silvery white ground; showy.

Jessie Cuthbertson. Creamy white striped rich rose; large.

CUPID OR DWARF SWEET PEAS.

These grow from four to six inches high, and are beautiful grown in pots or planted for borders.

White, Pink, Scarlet, Primrose, Lavender, Striped, Maroon or Mixed.

Pkt., 5c.; oz., 15c.; ¼ lb., 40c.

Sweet Peas in Mixture

DIAMOND MIXTURE.

This is the most perfect blend of the finest named varieties it is possible to produce. As formerly, this mixture will contain the novelties of the preceding season, and the addition of the rare Spencer types will complete the grandest mixture of new large-flowering Sweet Peas ever grown. It will delight the most critical; if you are undecided as to the varieties or colors you want, buy the "Diamond Mixture."

Sold in 1 oz. sealed pkts. only, at 15c each; two for 25c.; 5 for 50c.; 12 for \$1.00. Not sold in bulk.

OUR SUPERB MIXTURE.

True Spencers Only.

A splendid mixture, carefully proportioned and blended to produce pleasing and harmonious combinations of color, containing the most beautiful shades and variations of the wonderful Spencer types. These are not seedlings, but carefully selected named varieties that retain all their purity and brilliancy of color.

Price, Pkt., 10c.; oz., 35c.

Special Mixtures to Order.

If you want to produce any special effect or color scheme, let us know your requirements. We can supply the correct color or mixture.

Extra Mixed. Select standard varieties of the finest colors.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; ½ lb., 30c.; 1 lb., 40c.

From a Prominent Amateur Grower Who Knows

At the height of the season my sweet peas are the admiration and envy of all who see them. I take a little credit to myself for special care but commend you for quality and selection. If you would like a written opinion that your "Helen Scott" originated in Portland is a finer white Sweet Pea than a certain famous specialist ever dreamed of, call on,

Yours Very Truly,

"DIAMOND QUALITY"

SWEET PEAS, 12 ft. High

Growing at the Portland Residence of
Mr. Tom Richardson



Mr. Richardson purchased his seed in the regular course of business, and the results were so pleasing that permission was given us to use this photo. He writes as follows:

"Many have seen and admired the sweet peas and will be around to get them "out of stock" as we did from the Portland Seed Co." Very sincerely,
Tom Richardson.

This beautiful Portland residence owes much of its attractiveness to tasteful plantings, and is a splendid example that every home owner should emulate.

HELEN
SCOTT

Dornroschen—Brilliant Red, Blush Tips,
Frau Hermina Marx—Lovely Light Pink,
Center Delicate Flush Tint.
Vulcan—Fiery Scarlet, Free Blooming. A
Fine Hedge Dahlia.
Modell—A Marvel of Waxy Yellow, Blush
and Plum Color.
Giant Edelweiss—The Grandest White.

our "Diamond
Quality"

DAHLIAS

are true
to name

we grow all
sorts and
offer only
the best

New
"Giant Edelweiss"

ROOTED cuttings of Dahlias can be supplied in season and are considered by many to give more flowers than plants grown from tubers. They also save much trouble and disappointment, as you are sure of having established plants at the right time. The price is the same as tubers, and many fine new varieties can only be obtained in this way.

DAHLIAS

OUR "Diamond Quality" Dahlias, registered prize winners from the best American, English and continental producers, will prove a revelation to all growers. The rapid evolution of the types and varieties, under scientific culture is the marvel of the floral world, and their possibilities can hardly be imagined.

Though the genus comprises but few species, Dahlias have a wider range of color than any other flower and for intense brilliancy and beauty, are unsurpassed.

We grow our own Dahlias, offering only those we know to be valuable. The past season's trials were a pleasant surprise, proving our selections to have been especially fortunate, for rarely do we have the pleasure of offering our customers so many novelties of such sterling worth, and you can have every confidence that our new Dahlias will be true to their registered names and as described. Furthermore, they will all be erect bloomers and good keepers, for in this list we have only included those varieties that withstand our severe field test.

Our "Diamond Collection" of Newest CACTUS DAHLIAS for 1911

Rare Novelties of Real Merit That Will not Disappoint You.

Rooted cuttings of these Dahlias sold in Europe the past spring for introduction at \$2.00 to \$4.00 each. We offer field roots, our own growing; or plants in season.

Entire collection, 12 varieties, \$12.00, prepaid. Single plants or roots Each, \$1.25

Curt Englehardt—Color brilliant, deep, fiery crimson, beautiful star-shaped flower; lighter at tips, which are quilled; free blooming; an excellent cut flower; stems extra good.

Desdemona—An exquisitely beautiful, daintily formed flower of the Dorothy Oliver type, but a larger, better Dahlia in every way; the central shade is a lovely creamy canary shading to white at ends of the slender, in-curved petals; flower very full, erect, borne on long stems above the dark, rich foliage; a vigorous free bloomer.

Dornroschen—A most unique and remarkable Dahlia coming in variable shades, carmine to brilliant red, shading to delicate pinks with blush suffusions; all degrees of color from the bright red self colors to the lighter variations, on the same plant; a dainty, perfectly formed, fully double flower; long slender petals, beautifully in-curved and quilled; large and free blooming; long stems, erect; compact bush.

Genoveva—An elegant distinctive flower of a pale canary yellow, with a beautiful faint greenish tinge suffusing the entire flower, which is large, with well filled incurving petals; erect, long stems, free blooming; approaches paeony type in its twisted formation; bushy, compact, vigorous grower.

Harmonie—A fine, full flower, chamois yellow center, outer petals a soft salmon red with lighter tips; a most elegant and free blooming Dahlia; erect grower, good stems, a great improvement over Aschenbroedel.

Lily Seismeyer—A rare shade of deep orange buff, with rich light yellow center; a very unusual and beautiful combination; petals are of great substance; blooms large, erect, on long stems; is very early, free blooming, and one of the most lasting when cut.

Modell—This is truly a model Dahlia with a coloring all its own. A beautiful clear waxy yellow, with a delicate plum blush sheen over tips of petals; a dainty, lovely flower of large size, perfect form, petals incurving, erect on long stems; one of the best bloomers and most vigorous growers ever produced. Add Modell to your collection.

Magnet (Mann 1910)—A strikingly beautiful flower that attracts immediate attention; the first color impression being almost a true lavender, with purplish pink suffusion at points of petals; yellow suffusion in center; entire flower seems overlaid with a blue sheen. Magnet has broad twisted petals, is full and large, very early, long stems, erect, free flowering, good keeper.

Mauve Queen—A beautiful true lavender with lighter center, full flower with finely quilled petals; beautifully formed, incurved; an erect grower, long stems, vigorous, free blooming; a grand exhibition flower and one of the best introductions in years.

Othello—A glorious full, large flower of deepest, richest crimson, center almost black; finest true cactus form; petals of great substance, free and continuous bloomer, producing the most perfect flowers; long stems, erect, good keeper; an ideal flower in every way and one of the earliest.

Vulcan—A brilliant fiery vermilion, or orange scarlet, a veritable "hedge of fire," one of the most profuse bloomers, rivaling the Countess of Lonsdale; a splendid flower on long, erect stems high above the foliage; compact, vigorous bush. Vulcan is the ideal hedge Dahlia—and as a cut flower outlasts other Dahlias. Try it.

Weisse Dame—A valuable new white of splendid form; large, full, petals curved and twisted; one of the best and most free-blooming of white cactus Dahlias; its great wealth of perfect flowers are borne erect on long wiry stems; compact bush.

CULTURE

Dahlias will grow to perfection in any good garden soil, preferably one that contains a little sand. Plant as soon as the frost is gone and the ground warm, cutting the tuber to a single strong eye, and placing it on its side at a depth of about 6 inches, in ground that has been previously well cultivated. An excellent way to start Dahlias is to sprout the tuber in a green house and set out the rooted plants. These are generally believed to give more and better flowers, but is more trouble than planting the bulbs. Rows should be four feet apart, plants 18 inches to 3 feet apart in the row, depending on whether planted for a hedge or for specimen plants. Cultivate thoroughly until ready to bloom, then deep tillage must cease and only the surface be lightly stirred, as deep cultivation at this time is fatal to blooming.

If you use commercial fertilizer, do not apply until the plant starts growth, then work it into the top soil, 5 or 6 inches from the plant. Bone meal is an excellent fertilizer for Dahlias but must be applied early, as it is slow in action. When the plant is well up, say 6 to 10 inches, pinch off the top, leaving 2 or 3 joints. This will cause it to branch out into a more sturdy, bushy growth. Water freely.

 We would particularly call attention to the new types of "Paeony Flowered" Dahlias as being of rare beauty and great value for garden effects or cut flowers.

New Paeony Flowered Dahlias

A complete list of the best varieties, including the most recent introductions.



Geisha
New Paeony
Flowered
Dahlia

Geisha

This is the most remarkable and distinctive Dahlia ever grown, and while belonging to the "paeony" section, is in a class of its own; the color is unique, entirely apart from other Dahlias, having a rich, bright golden yellow ground color near center; suffused and heavily marked with clear bright red, shading toward points of petals into the clear yellow of the ground color; a beautiful deep golden center, adds to the harmony of the color scheme which is the most striking and brilliant ever seen in a Dahlia. The immense flowers often attain a width of 10 to 12 inches, and the massive petals, more than in any other paeony type, are twisted and curled in the most fantastic manner. Geisha is a sure grower and free bloomer even in the driest weather, but is a shy reproducer and very scarce. We have a few roots of our own importing which we offer at

Each, \$2.00

Plants in season, same price postpaid.

Queen Emma

Giant flowers of a lovely soft lavender pink, irregular ranges of petals, long stems. Plants or tubers.

Each, 35c; 3 for \$1.00

TRIAL COLLECTION 14—SUPERB PAEONY DAHLIAS—14

Entire Collection Well Rooted Plants, Prepaid to any address, \$6.00 .

We cannot furnish bulbs of these varieties, but recommend rooted plants as giving even better results than tubers.

King Leopold—Cream yellow to white, Large, long stems, good.

Each, 35c

La Riant—Deep pink flowers, long stems, good keepers, distinct garden variety of great value.

Each, 35c

Mannheim—Soft orange, fine form. 6 ft., Each, 50c

Merveille—Orange yellow, of great beauty.

4½ ft., Each, 50c

Paul Kruger—Large white, shaded red, bright attractive.

3 ft., Each, 35c

Queen Alexandra—Sulphur white, fine 4 ft., 75c

Andrew Carnegie—Salmon pink, shaded bronze, extra large.

Each, 75c

Bertha Von Suttner—Salmon pink, shaded yellow, erect, elegant form.

Each, 75c

Baron G. de Grancy—Creamy white, long stems, good habit.

Each, 35c

Dr. K. W. Van Ghorkom—White shaded rose, free blooming.

Each, 35c

Glory of Baarn—Soft pink, erect, giant size, fully double.

Each, 35c

H. Hornsved—Enormous soft salmon pink flowers

75c

Hugo de Vries—Brownish orange, open form.

3 ft., 50c

King Edward—Large purple crimson, fine.

\$1.00

New "Mastodon" Pansies

Pages 59 and 80.

This newest type of Dahlia, originating in Holland, comes to us with the endorsement of all Europe.

The blossoms are semi-double of enormous size, and the coloring is most brilliant and beautiful. They come in several pleasing forms, generally with 3 to 5 rows of petals, which are long and broad, sometimes being beautifully curled and twisted.

Paeony Dahlias bloom more freely than any other class, are very vigorous, growing to a height of 5 to 6 feet, with their flowers on long stems above the foliage.

Giant Edelweiss

This new type of Dahlia has true cactus petals of enormous length, curving inward at the tips; color a pure glistening velvety white, of great substance; the center is a brilliant golden yellow, forming a most striking contrast, producing a perfect duplicate of the famous Edelweiss of the Alps, on a gigantic scale, hence its name.

For vigor of growth, free blooming and perfection of individual flowers, we have never seen its equal. Planted in the field without irrigation in the driest season, "Giant Edelweiss" was a mass of bloom, flowers from 6 to 8 inches across on long stems borne high above the compact bush, which grows 4 to 5 feet. See color plate.

Strong flowering roots or plants in season, each \$1.50

Philadelphia

This new Giant Dahlia belongs to the same type as Giant Edelweiss. Color is carmine rose, passing to a soft blush white, center bright yellow; showing stems above the foliage, 4 to 5 feet.

Roots or plants in season, each \$1.00

Germania

A rich, dark, velvety wine color with a suffusion of golden-yellow toward the edges of petals. Germania is free from the purplish tint that spoils other reds.

Plants or tubers. Each, 35c; 3 for \$1.00

Plants or tubers. Each, 35c; 3 for \$1.00

Queen Wilhelmina

Large pure white, central petals beautifully twisted and curled; very vigorous and free flowering; one of the finest garden Dahlias.

Plants or tubers. Each, 35c; 3 for \$1.00

Glory of Groenekan

Extra large flowers of finest form. Color a splendid golden orange. Strong grower; free-flowering.

Plants or tubers. Each, 35c; 3 for \$1.00

P. W. Janssen

A magnificent Dahlia of splendid form and distinctive coloring, being a lovely shade of old rose, marked and suffused with deep, rich golden yellow, a rare and beautiful combination.

Bush grows to a height of 5 or 6 feet, is very vigorous and blooms freely. The giant flowers are borne high above the foliage, on long, strong stems.

Each, 60c postpaid; doz., \$6.00

FINEST CACTUS DAHLIAS

From comparative tests in the field we have selected the following as being the best of their types and color. This list contains many of the new Dahlias as well as the best of the older ones:

 In lots of one dozen or more deduct 25 cents per dozen from the single price.

White

Eva—Pure white, fine form.	Each, 25c
Fairy—Beautiful clear white, narrow petals, fine form; one of the best; try it.	Each, 35c
Florence M. Stredwick—A grand new white; large, fine form (see cut).	Each, 25c

Red

Berlichengen—New, deep crimson-carmine; brighter at tips; of the finest form and substance; a true cactus type of rare beauty; very floriferous.	Each, 35c
Burbank—Deep rich cardinal red, of finest form and substance, full and free blooming; best of its color.	Each, 35c
Edith Waters—Beautiful carmine pink, claw-shaped free-blooming, desirable.	Each, 35c
Matchless—Dark rich crimson.	Each, 20c
Nelson—Deep maroon, large, well-filled flower, fine petals, claw-shaped, central ones interlacing; a distinctive new Dahlia.	Each, 75c
Thuringia—A magnificent flower of immense size and perfect form; color, a brilliant orange-vermillion; perfect cactus type, of great depth, petals narrow, curving upwards; a grand exhibition sort.	Each, 35c

Pink

Britannia—Beautiful salmon-pink.	Each, 25c
Clara G. Stredwick—Bright lovely salmon; finest of its class.	Each, 25c
Countess of Lonsdale—Rich, rosy-pink, very floriferous.	Each, 15c
Dorothy—Lovely silvery pink, tips of reverse of petals, showing white; splendid.	Each, 75c
Frau Hermina Marx—A new Dahlia of rare beauty; color the same lovely shade of pink as the La-France rose; center delicate flesh; erect, free bloomer; very desirable.	Each, 25c

Yellow and Shades

Capstan—Orange-scarlet and apricot; one of the finest for cut flowers; dwarf habit, free-bloomer, with large, perfect flowers on long, stiff stems.	Each, 15c
Erlkonig—Soft chestnut, yellow base; fine.	Each, 20c
Master Carl—Bright amber, of giant size and perfect form, immense petals, gracefully curved; free-blooming, distinctive.	Each, 50c
Miss Dorothy Oliver—Pale primrose yellow; long narrow petals; fine form; beautiful and attractive.	Each, 50c

Variegated and Shaded

Alpha—White ground, striped and splashed bright crimson—a vigorous grower, very free, fine garden variety.	Price, each, 25c
Aschenbrodel—Orange pink, distinct coloring; of great beauty of form, vigorous, free-flowering; one of the finest ever produced.	Each, 40c
Antelope—Rich yellow; bronze red shading.	Each, 40c
Aurora—Considered the grandest Dahlia ever grown. We are inclined to this belief after personal observation during the past season. Color almost indescribable, shading through tints of pink, amber, rose and cream; a model flower of perfect form, and splendid habit of growth.	Each, 50c

Comet—Extra large, silvery rose, marked crimson, a very free bloomer, of good habit.	Each, 25c
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Country Girl—Lovely bright yellow, flaked sparingly with plum color; petals also penciled plum; long stems, erect, free blooming; an attractive Dahlia; 4 ft.

Diavolo—Unique coloring, base being light yellow, suffused rose toward tips, splashed and striped crimson; plants only.

Effective—Chamois rose, yellow shadings.

Elate—Pinkish mauve, yellow center, fine extra large.

Innovation—Bright red, white tips.

Mrs. Spencer Castle—A rare and distinctive type of cactus, suggestive of a water lily; color rosy amber, passing to lilac rose at base.

Popagai—Yellow and rosy red, lemon tips.

Reliable—A blending of yellow, brick red and salmon; truly a grand flower.

The Pilot—Terra-cotta to deep yellow, erect, long stems, dark foliage, a prize winner.

Decorative, Show and Fancy Dahlias

Dreer's White	A magnificent white, of great purity, long stems.	Each, 35c	Mme. A. Lumiere	Pure white with violet red points, good.	Each, 50c
Dr. Gates	Beautiful shell-pink; good for cut flowers.	Each, 25c	Mrs. Roosevelt	A beautiful, delicate pink, of immense size, fine stems, perfect form, large and double, superb.	Each, 35c
Estelle	Blush to dark pink, red markings.	Each, 25c	Mrs. W. Tresader	Pale yellow, tipped bright pink.	Each, 25c
Florence	A beautiful shade of orange yellow; flowers of fine shape; a free and constant bloomer; good keeper.	Each 25c	Navajo	Rich, velvety red; splendid sort.	Each 25c
Jeanne Charmet	A dainty exquisite pink, margined pale yellow, shading to pure white at center, large, fine, full form, erect, long stems, one of the best of the new decoratives.	Price, each 50c	Opal Queen	A rare, new color; the same as the stone of that name.	Each, 20c
Kaiserin Augusta Victoria	Magnificent white flowers, of immense size and perfect form, borne erect on long stems high above foliage, blooms freely until cut down by frost, invaluable for landscape or large plantings.	Price, each, 50c	Perle D'Or	Large, pure white, free bloomer, erect, edges of petals split giving distinct appearance.	Each, 20c
Lavender Queen	Clear, soft lavender; petals deeply serrated.	Each, 15c	Sacajawea	Orange, shaded red. A fine large, bold flower; very effective and pretty; excellent bloomer.	Each, 25c
Mrs. Winters	Snow white, large beautiful form.	Each, 20c	Sylvia	Splendid pink; floriferous; keeps well.	Each, 15c
Miss Frances Fell	Decorative; white, lilac shading.	Each, 20c	Souvenir	Scarlet edged, white, good.	Each, 25c
Maurice Revoire	Large, rich maroon with heavy, pure white collar.	Each, 25c	Souvenir de Gustave Doazon	(Decorative.) The largest Dahlia to date; often growing 9 inches in diameter; constant bloomer, magnificent rich scarlet color; the greatest of all Dahlias.	Each, 40c

Quilled Varieties

A. D. Livoni	This grand old variety still remains the best pink of its type.	Each, 15c
Grand Duke Alexis	Finest large white.	Each, 15c
Lucy Fawcett	Sulphur-yellow, flaked crimson.	Each, 15c
Thos. Pendred	Finest and largest of the pure yellows, a rich soft shade of golden yellow, perfect form, blooms freely and continuously even in driest weather.	Each, 35c

Pom-Poms

Pom-Poms	These are pretty little globe shaped flowers, on long stems, high above the dwarf foliage, fine for border, keep well when cut.
Catherine	Purest yellow; large
Darkest of All	Darkest pom-pom; perfect flowers
Nerissa	Soft pink, silvery tint; a beautiful new color.

CANNAS

WE are extensive growers of Cannas, and the following sorts are newer and better types that will give best results in our climate. Cannas require a rich, moist soil and should not be planted until all danger of frost is past. They are quick growers and the new flowering sorts bloom continuously until frost.

Inexpensive, luxuriant; these charming ornamental plants produce rich tropical effects that cannot be excelled, and the grand new varieties now offered are equally valuable for the beauty of their bloom.

Let us know your requirements. We can supply the correct variety.

Prices: Except where noted, bulbs or plants, in season, each, 20c; dozen, \$2.00, postpaid.

ALICE ROOSEVELT—Deep crimson, compact green foliage; similar and superior to Alphonse Bouvier. Height 4 to 5 feet.

ALLEMANIA—Light green, compact foliage; orchid type of flowers, bright golden lemon center marked and spotted terra cotta; height 4 to 5 feet.

BUCHARLAT AINE—Deep scarlet, large flowers and spikes.

BLACK BEAUTY—Large leaf, deep green with brownish tint, vigorous dense foliage; flower spikes long; color a distinct deep shade of scarlet; height 6 feet.

DAVID HARUM—Foliage dark, glossy bronze; flowers large, orange-scarlet; very free-blooming, height 3 to 3 1/2 feet.

ELDORADO—True bright yellow, faintly spotted light red; light green foliage. The best yellow Canna; 3 to 4 feet.

FLORENCE VAUGHAN—Bright yellow spotted crimson; 4 feet.

JEAN TISSOT—Brilliant vermillion; green foliage; fine; 3 to 4 feet.

KING HUMBERT—In this grand new orchid-flowered Italian Canna we have a combination of the highest type of flower with the finest bronze foliage. Its mammoth flowers, in heavy trusses, are a brilliant orange-scarlet, with bright red markings, foliage is broad and massive and of a rich coppery bronze with brownish green markings; bold and effective; has no equal; 5 to 6 feet.

LOUISE—The nearest approach to a true pink—a rare color in Cannas; a very vigorous, constant bloomer with light green dense foliage; height 4 feet.

LOUISIANA—A strong, vigorous grower, producing a dense mass of glossy green foliage and vivid orange-scarlet flowers of mammoth size; orchid type; height 4 to 5 feet.

MISS BRUNNER—Bright light yellow flaked carmine; excellent. 4 to 4 1/2 feet.

MRS. KATE GREY—Foliage green; flowers very large; rich orange-scarlet, marbled with red, yellow in the throat; 5 to 6 feet.

MUSAFOLIA—This is the finest foliage Canna yet seen; has enormous Musa-like leaves, 2x5 feet, of a dark green. Attains a height of 8 feet, beautiful and symmetrical at every stage of growth.

PENNSYLVANIA—One of the finest orchid-flowering, color a deep rich scarlet; very free bloomer; spikes enormous; foliage dense, large, deep green; height 5 to 6 feet.

Price, each 25c; doz., \$2.50
PRESIDENT MEYER—Large, rich, bright scarlet flowers; dark bronze foliage, 3 to 3 1/2 feet; extra good.

QUEEN CHARLOTTE—Scarlet, widely bordered, yellow, early, dwarf, compact; 3 feet.

QUEEN OF BEAUTY—A deep rich pink, similar to Louise, but darker. 4 feet.

RED CROSS—Magnificent rich dark-brown foliage, of massive sturdy habit; flowers a brilliant glowing orange-red; height 3 to 4 feet.

W. E. COTTERELL—Pink, suffused orange; foliage green, marginal brown; 3 1/2 feet; fine.

WYOMING—A grand orchid-flowering Canna, with deep bronze foliage and immense golden orange flowers, suffused with a blush of crimson; height 4 to 5 feet.

Price, each, 25c; doz., \$2.50

GLADIOLI

THE newer types are of immense size and exquisite coloring, their grace and attractiveness now commanding the attention they have so long deserved. This season we offer a splendid novelty in the New Giant Ruffled Gladiolus "Glory," a marvelous flower of this new race which is an American introduction of the utmost importance.

CULTURE.—Gladioli may be planted as early as the ground can be worked or as late as June. A sunny situation is preferred. Plant to a depth of 3 to 6 inches, depending on the size of bulb. Largest bulbs are not always best, as some varieties do not produce large bulbs. Any garden soil will give satisfactory results, but if well enriched, cultivated and freely watered when buds first show, Gladioli will amply repay you for this additional care. If cut when the first bud opens and put in water, the flowers will open perfectly, keep for many days, and the coloring is richer and more delicate than if left on the plant.

New Giant Ruffled Gladioli

A distinct novelty of genuine merit.

Ruffled Gladioli have broad, expanded flowers, paired and faced the same way, borne on strong stalks, 3½ feet high, from 4 to 8 flowers open at the same time; petals are exquisitely ruffled and fluted, giving the flower a refined, graceful appearance. The originator has many varieties in all colors and shades that will be offered as rapidly as stock can be produced. One selection will be given to commerce in 1911 and has been named.

Gladiolus Kunderdi—"GLORY." Color a delicate cream pink tint with an attractive crimson stripe in the center of each lower petal. The shade is new and the flower is indeed a glorious beauty. There are but few bulbs offered this season and as the introductory price is very low, you should order now and be one of the fortunate few who will secure this great novelty for trial.

Price, each, 30c.; doz., \$3.00

FIVE Beautiful and Distinct Gladioli 5 Bulbs, One Each, Post Paid \$1.00

DAWN—An elegant rose-colored flower with large, clear white center, a most beautiful new Gladiolus.

Price, Postpaid, ea., 25c.; doz., \$2.50

CONTRAST—Intense scarlet with pure white center; one of the grandest, most attractive new flowers.

Price, Postpaid, ea., 30c.; doz., \$3.25

12 Select Gladioli

AMERICA—Exquisite shade of flesh pink tinted lavender. The most popular gladiolus.

ATTRACTION—Deep crimson, white center.

AUGUSTA—Lovely pure white; blue anthers. **BRENCHLEYENSIS**—Rich vermilion, shading to scarlet.

CANARY BIRD—A pleasing bright yellow.

HARLEQUIN—White-striped and suffused with rich dark crimson.

I. S. HENDRICKSEN—Large, beautiful flowers, mottled, white and pink; variable.

Price, postpaid, each 15c.; entire collection, 12 varieties, \$1.50.

Mixed Gladioli

DIAMOND MIXTURE—Select named varieties with choicest Childs' Hybrids.

Doz., \$1.00; 100, \$5.00

GLADIOLI CHILDLSI—Of grand size and color, very showy, containing a large per cent of red and dark shades. Doz., 75c.; 100, \$4.00

GLADIOLI, FINE MIXED—This mixture will produce a large variety of fine flowers unequalled for the price. Doz., 50c.; 100, \$3.00

WILD ROSE—Bright rose or blush tint, of rare beauty; large, free-flowering; forces well.

Price, ea., 25c.; doz., \$2.50

BLUEJAY—The only true blue Gladioli; a dark indigo shade; very popular.

Price, Postpaid, ea., 20c.; doz., \$2.00

BLANCHE—A splendid large white flower with but faint markings. One of the best.

Price, each, 20c.; doz., \$2.00

Best of Their Color

KLONDYKE—Light yellow, crimson maroon blotch.

MRS. FRANCIS KING—A pleasing light scarlet; fine for forcing.

OCTAHOON—Beautiful salmon pink.

SUNLIGHT—Light crimson, canary throat, mottled velvety maroon.

SUPERB—Enormous pink, flaked and striped salmon.

Gloxinia

Gloxinias are such attractive, free-blooming summer flowers that every one should grow them. But there is a general impression that they can only be grown by a florist. This is not so, as the observance of a few simple details will insure success with this most beautiful and interesting plant.

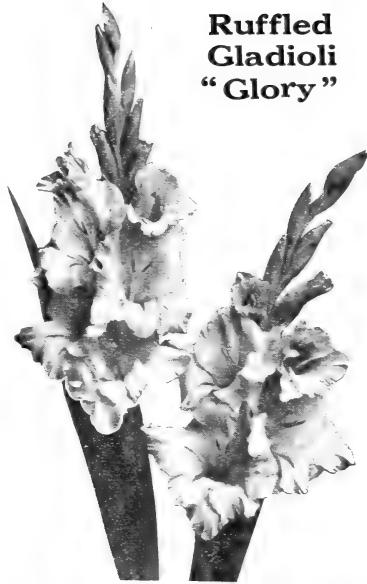
The prime factor in growing Gloxinias is the soil, which must be about equal parts rotted sod or leaf mould, good rich loam, and sharp sand. The next consideration is watering, which must be carefully done, avoiding the sprinkling of the foliage. Put the water on the roots and keep an even moisture, not too wet. Give the same general treatment advised for Tuberous Begonias.

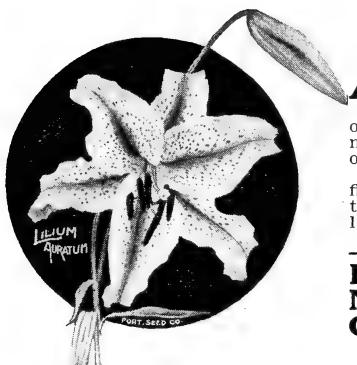
GLOXINIA CRASSIFOLIA ERECTA—Fine named varieties, separate colors and shades; white, crimson, purple, etc.

Select mammoth bulbs.

Each, 20c.; doz., \$2.00; 100, \$15.00

Ruffled
Gladioli
"Glory"





LILIES

AFTER bulbs are set out they should remain undisturbed for five or six years. They will increase in size, beauty and number of flowers, with practically no attention, our coast climate being perfectly suited to their requirements, and once established, they rival the famous product of Japan.

Planted outdoors during the fall or early spring, they flower each year from June to October. We have selected the finest types that bloom freely and in the various kinds listed below you will find Lilies suitable for every purpose.

Fine New Cannas

Page 72

LILUM FORMOSUM.

LILUM FORMOSUM. The best of the Longiflorums, being early, free flowering and free from disease.

Mammoth bulbs..... Each, 25c.; doz., \$2.50
Large bulbs..... Each, 20c.; doz., \$2.00

LILUM LONGIFLORUM (Multiflorum).

Much like the *Lilium Harrisii*, not quite so early, but the flowers are of better substance. When grown in the open ground they bloom in June and July. Can be planted in the spring or fall.

Mammoth bulbs..... Each, 20c.; doz., \$2.00
Large bulbs..... Each, 15c.; doz., \$1.50

LILUM LONGIFLORUM (Giganteum).

Of grand size and substance; superior to the Multiflorum, but flowers a little later; especially fine for open ground.

Mammoth bulbs..... Each, 20c.; doz., \$2.00
Large bulbs..... Each, 15c.; doz., \$1.50

Lilium Speciosum

No words can overstate the brilliant beauty of this charming class. Its six broad white, or pink petals thickly dotted with rose or carmine spots, and the graceful form, brilliant color and exquisite fragrance make this one of the most effective and desirable of the Lily family. They are profuse bloomers and last for days after being cut and put in water.

NEW LILUM MAGNIFICUM. This new Lily is the most magnificent of the wonderful Speciosum Lilies. It is of the Rubrum variety, closely allied to Speciosum Melpomene, but of much richer color and grander size.

Price, Each, 40c.; doz., \$4.00

SPECIOSUM ALBUM. Pure white, flowers freely.
Mammoth bulbs..... Each, 30c.; doz., \$3.00
Large bulbs..... Each, 20c.; doz., \$2.00

SPECIOSUM RUBRUM. White, with dark rose spots.
Mammoth bulbs..... Each, 25c.; doz., \$2.50
Large bulbs..... Each, 20c.; doz., \$2.00

SPECIOSUM RUBRUM MELPOMENE. White, shaded rich blood crimson, heavily spotted; very rich and showy.
Mammoth bulbs..... Each, 25c.; doz., \$2.50
Large bulbs..... Each, 20c.; doz., \$2.00

Tiger Lilies

TIGRINUM FLORE PLENO (Double Tiger Lily). This is a magnificent Lily of stately habit, bearing immense clusters of very large double flowers on tall, strong stems; color bright orange red, spotted with black.

Mammoth bulbs..... Each, 30c.; doz., \$3.00
Large bulbs..... Each, 20c.; doz., \$2.00

TIGRINUM SPLENDENS (Improved Single Tiger Lily). Has very large flowers of excellent form; color orange-salmon, with dark spots; hardy and a free-bloomer.

Mammoth bulbs..... Each, 15c.; doz., \$1.50
Large bulbs..... Each, 10c.; doz., \$1.00

LIL. PLATYPHYLLUM.



LILIES—Continued

LILY OF THE NILE.

Calla Aethiopica. Our well known White Calla in its rare and stately beauty has few equals as a pot plant, and nothing is easier to grow. Plant one bulb to 6-inch pot, give an abundance of water, light and heat, and the result will be most satisfactory.

We offer dry roots (from September on), as they are superior for forcing and winter flowering purposes. They come into bloom quickly.

First size bulbs..... Each, 15c.; doz., \$1.50
Extra size bulbs..... Each, 20c.; doz., \$2.00

ARUM SANCTUM.

The Black Calla—A rare and interesting plant, grows well and flowers freely; always attracts much attention. Each, 40c.; doz., \$4.00



Calla Elliotiana.

LILY OF THE VALLEY.

Extra Select Berlin Pips.

One of the most satisfactory and charming Spring flowering plants, producing in profusion its delicate bell-shaped, delightfully fragrant, white flowers. Valleys thrive in any common soil, are perfectly hardy, and will succeed in shady situation. They can be left undisturbed in the open ground, where they will increase from year to year, and are most charming in beds or borders around the lawn. For outdoor planting and Winter forcing, pips and clumps are ready November to March.

NOTE.—Clumps can only be sent by express or freight at buyer's expense.

Selected Pips, for forcing indoors or outside.— Each, 5c.; doz., 40c.; 100, \$2.50

Strong Clumps, for outdoor planting. Each, 30c.; doz., \$3.00

CALADIUMS.

Esculentum (Elephant's Ear)—Grand tropical-looking plant. A favorite for specimens on the lawn, or for bordering large sub-tropical groups. In deep, rich soil, if freely watered, they produce enormous leaves, frequently four feet long by three feet wide. Plant in the spring. Height 4 to 5 feet.

Each, 25c.; doz., \$2.00

BLEEDING HEART.

(Dicentra.)

Spectabilis. One of the most ornamental of hardy spring flowering plants, with elegant green foliage and long, drooping racemes of heart-shaped flowers. This is deemed one of the finest of all hardy garden plants.

Strong Roots..... Each, 30c., postpaid

CALLA ELLIOTIANA.

Yellow Calla. The finest of the yellow Callas, growing to perfection under ordinary pot culture. Treat same as White Calla. Flowers are a deep rich golden yellow, 4 to 5 inches in diameter, and last a long time after opening. Foliage is a beautiful deep green, spotted silvery white; a grand novelty.

Price..... Each, 50c.; doz., \$5.00

WASHINGTONIANUM (Mt. Hood Lily)

A beautiful Lily, native of Oregon; flower large, of open form, white, tinted with lilac; grows 3 to 5 feet high; very fragrant.

Choice bulbs..... Each, 25c.; doz., \$2.50

AMARYLLIS HALLI. (Licoris Squamigera.)

A new hardy pink Amaryllis-like flower, of exquisite beauty, producing its attractive green foliage in the early Spring, dying down suddenly in July, but in three or four weeks the flower stalks shoot up as if by magic, to a height of two or three feet, developing a cluster of large and beautiful lily-shaped flowers three to four inches in diameter; color is a most charming shade of delicate lilac pink with dainty blue shading. Fall planting is best, and bulbs should be buried about four inches. Each, 30c.; doz., \$3.00

AMARYLLIS

All Amaryllis produce Lily-like flowers, varying in color from the richest crimson and scarlet to pure white. The bulbs we offer are of extra large size and will produce handsome flowers either in or out of doors.

JOHNSONII (Bermuda Spice Lily.) An old favorite. The immense trumpet-shaped flowers, which measure six to eight inches across, are borne on strong, fleshy stems and are a rich velvet crimson, each petal having a broad white stripe.

Choice bulbs, each, 35c.; 3 for 90c.

BELLADONNA MAJOR (Belladonna Lily). Autumn blooming variety of extreme beauty and fragrance; the spikes grow from two to three feet high, each carrying from six to twelve beautiful flowers, "sweet as lilies," of silvery white, flushed and tipped with rose.

Choice bulbs, each, 25c.; 3 for 60c.

VITTATA HYBRIDS. New varieties of exceptional beauty; flowers large, elegantly colored and marked. Good for early forcing.

Each, 40c.; 3 for \$1.00.



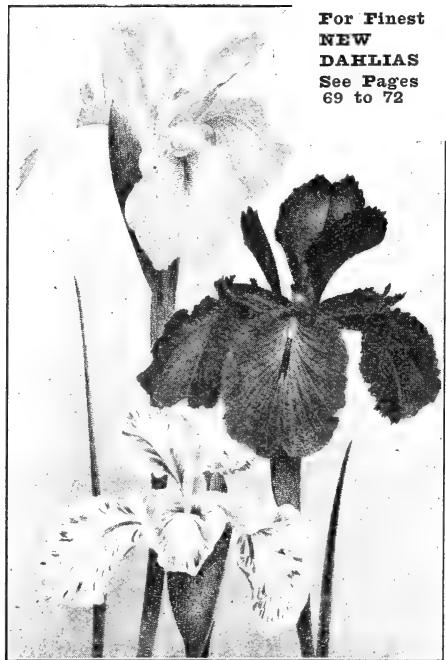
Lily of the Valley.

NEW WHITE BLEEDING HEART.

(Direct from Holland.)

Spectabilis Alba. A splendid novelty for conservatory or cool greenhouse. If planted outside, must be placed in a sheltered position. A pure white, free-blooming, beautiful variety of great value.

Strong Roots..... Each, 50c., postpaid



Japanese Iris (Iris Kaempferi).

Japan Iris is the largest and most wonderful of the Iris family, no flower of any kind surpassing its rare beauty of form, brilliancy and variety of coloring, ranging from snow-white through maroon, violet and deep blue; striped, variegated, veined and blended in the greatest profusion, producing effects that are truly marvelous and indescribable. Blossoms early summer. Japan Iris succeeds best in a moist location, but will thrive in any good garden soil. Plant 3 inches deep, about 4 inches apart; divide the clumps every two years. Fertilize established beds while dormant, using stable manure, but do not apply after growth starts. There are hundreds of varieties, from which we have selected the following:

Gekka-no-nami—Dense pure white, yellow blotches.

Ho-o-jo—Ruby crimson, primrose blotches, surrounded with white halo.

Hana-no-nishiki—Brilliant claret red, penciled white, purple orange blotches.

Sofu-no-koi—White splashed, blotched and speckled sky-blue, primrose blotches.

Shimoyo-no-tsuki—White, yellow blotches at base of petals; 6 large petals.

Uji-no-hotaru—Purple overlaid with sky-blue, orange blotches, 3 petals.

Yezo-nishiki—Deep rich crimson, mottled and blotched white, 3 standards same color.

Yomo-no-umi—Lavender blue; distinct and beautiful; 6 petals.

Kuma-funjin—Purple overlaid with navy blue, 2 standards, very large orange blotches.

Kumoma-no-sora—White, with a strongly marked sky-blue zone and mottled in the same shade.

Kumo-isho—Purple, margined gray, yellow blotches, surrounded with velvety crimson.

Kumo-no-obi—Dark lavender purple, large handsome flower, 3 petals.

Named Varieties.

Each, 20c; doz., \$2.00; 100, \$15.00

Mixed, good assortment.

Each, 15c; doz., \$1.50; 100, \$10.00

For Finest
NEW
DAHLIAS
See Pages
69 to 72

IRIS

MAGNIFICENT plants for the garden. They bloom profusely and are exceedingly showy and fragrant. The colors are brilliant and cover a wide range of different shades and combinations. In the open ground they are perfectly hardy, increase rapidly and make a magnificent display either in clumps or borders. They do best in rich, moist soils. If soil is light, depress the beds a little below their surroundings; this helps to collect and hold the moisture. Plant in the fall or early spring.

Spanish Iris

Spanish Iris is the most useful and satisfactory Iris to grow, requiring no unusual condition or treatment to insure success, growing to perfection in any good garden soil. They are vigorous and hardy, early and free blooming, keeping well when cut; can also be forced easily, being great favorites with florists.

Spanish Iris comes in the most delicate and beautiful shades and colors, from white, through dainty blues to lavender, dark blue, pure rich yellow, etc. Bulbs are inexpensive and we urge you to plant freely.

Blooms in early June two weeks before the English variety. The varieties listed are best of their colors.

Blanche Fleur—A grand white flower of great substance. The best white for forcing or outdoor culture.

Cajanus—A magnificent tall golden yellow, free blooming, good keeper; best yellow Iris in cultivation, either to force or grow outside.

Count of Nassau—The finest dark blue Iris. Has an agreeable honeysuckle perfume.

Louise—A beautiful shade of light blue, large, splendid flower.

Emperor—A splendid new light yellow of great merit.

Darius—A pleasing light blue—earliest of all.

Finest named varieties.
Each, 5c; doz., 40c; 100, \$2.50

Mixed, select, all colors.
Each, 3c; doz., 25c; 100, \$1.50

GERMAN IRIS.

German Iris is one of the best of the early spring flowers, is hardy everywhere, and if planted in a moist situation or watered freely, will produce magnificent orchid-like blooms of great size and delightful fragrance. Comes in charming color effects in blues, browns, yellows, purples, white.

Florentine Alba—White.

Celeste—Satin blue.

Spectabilis—Violet purple.

Shakespeare—Bronze violet.

Mars—Light yellow and cream.

Choice roots for fall planting.

Each, 15c; doz., \$1.50; 100, \$10.00

ENGLISH IRIS (Iris Anglica).

English Iris is almost as large as the Japanese variety and also comes in a marvelous range of colors and variegations, is extremely hardy, growing 18 inches to 28 inches high, coming into bloom just before the Japanese Iris. Like all Iris, a moist situation is preferred, but any good soil will grow them splendidly. Plant 3 to 4 inches apart. English Iris is one of the best for naturalizing.

MONT BLANC—Largest and finest. Pure white. Each, 6c; doz., 60c; 100, \$4.00

Assorted colors, 10 best varieties.

Each, 5c; doz., 50c; 100, \$3.00

Mixed Each, 5c; doz., 40c; 100, \$2.50

Tuberous—Rooted Begonias

From their early first blooming until cut down by frost, Tuberous Begonias display a mass of bloom of most gorgeous and brilliant coloring. They are distinct and unique, their giant flowers fully six inches in diameter, in wonderful shades of yellow, bronze, white, reds, pinks, etc., with thick waxy petals and grand ornamental foliage, never failing to excite the wonder and admiration of all who see them. There are four types, Single, Double, Frilled and Crested.

CULTURE—The soil should be rich in leaf mould, or well-rotted manure, a little sand being beneficial. Start the bulbs inside in the early Spring, and transplant when danger of frost is past. They should be lifted in the fall before frost, dried and stored in sand in a cool place.

A good way to start Begonias and Gloxinias is to put the bulbs on a layer of moss in a box or flat and cover with another layer. Keep moist, but not too wet; temperature about 70 degrees; this starts both top and roots, then pot for root development before transplanting outside. See page 73 for Gloxinias.

SINGLE FLOWERING.

These are of immense size, erect, flowers of great substance, free blooming and very lasting. Come in eight separate colors, copper, canary, orange, crimson, rose, pink, white and salmon.

Price, each, 10c; doz., 85c; 100, \$6.00

CRESTED.

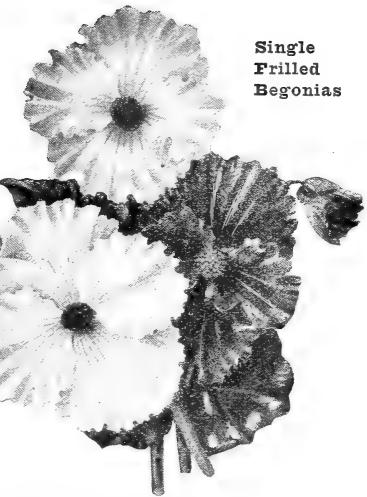
This remarkable strain comes in all the finest colors, and the flowers are as large as the largest singles. The petals, of great substance, carrying on their upper surface a crested formed cockscomb, which is a very attractive and interesting addition to the flower. Price, separate colors,

Each, 20c; doz., \$2.00; 100, \$15.00

MIXED.

Our Diamond Mixture, containing all of above sorts. Per doz., \$1.50; 100, \$10.00

Our Begonias and Gloxinias come from Ghent, Belgium, where finest bulbs are grown.



DOUBLE FLOWERING.

Many charming effects are found in the double varieties, they being often as full and beautiful as a rose, some of the white varieties resembling giant carnations. Price, separate colors.

Each, 15c; doz., \$1.50; 100, \$10.00

FRILLED.

(See Cut.)

Single frilled Begonias differ from the plain singles only in having the heavy frill or fringe on the edges of the petals. They have the same range of color, handsome foliage and free flowering habit. Separate colors.

Each, 20c; doz., \$2.00; 100, \$15.00

Paeonies, Double Herbaceous

THE development and increase in popularity of the Paeony has been unparalleled among flowers, and the profusion and duration of bloom, combined with handsome, massive foliage, accommodating habit, and easy culture, render them one of the most popular, hardy plants grown for lawn and garden decoration.

NEW—BARONESS SCHROEDER.

(Kelway)—We offer true stock of this rare Paeony, the most beautiful and desirable of English introductions.

Color in bud is a lovely, delicate flesh pink, bleaching to white when fully expanded, extra large massive flowers; true stock is scarce and we can supply but a limited number of field grown roots, 2 to 3 shoots. **Price, each, \$5.00**

Festiva Maxima—This superb variety is easily the most popular and valuable Paeony. Its flowers, of rare beauty and great size, are perfectly double, pure white, tipped or flaked with a small crimson spot at center; petals fine as summer silk; finest white in cultivation; strong roots. **Price, each, 75c.**

Large specimen plants, \$2.00

Alba Sulfurea—Large, creamy white bomb, very massive. One of the best whites of the bomb type. **Price 50c**

L'Esperance—Blooms just after the *Officinalis* varieties; tall, robust grower; good bloomer; flowers fragrant and of good pink color. **Price 30c**

Officinalis Rubra—Flowers of a bright scarlet crimson; quite double and globular; very early, rare and fine. **Price 30c**

Officinalis Alba—Blooms with *Officinalis Rubra* flowers, large and handsome. When *Alba* first opens it is light pink, fading to white as flowers get older. **Price 40c**

Fragrance—Late; color deep rose; fragrant and a very prolific bloomer; tall grower. **Price 30c**

Jeanne d'Arc—Very beautiful soft pink flower, sulphur-white and lively rose; center spotted carmine. One of the handsomest. **Price 40c**

Golden Harvest—Nearest approach to yellow; shows some pink while in bud, but as soon as it opens, turns to a creamy yellow, with a few red tips; a fine free bloomer and a grand flower; mid-season. **Price 60c**

Mad. de Verneville—Broad outside petals, sulphur white, with center rosy white, sometimes edged carmine, and beautifully imbricated; an exceptionally fine full flower, with the sweet fragrance of the rose. One of the earliest. **Price \$1.00**

Paeony Mouton

(Tree Paeony).

Grows about four feet high, forming a small, tree-shaped shrub. When this plant becomes well established and is covered with dozens of massive blooms, it presents a magnificent display. We have **Crimson, Pink, Scarlet, Rose and Variegated.**

Strong Imported Roots, from January to May, by express at buyer's expense (too heavy to mail). **Each, 75c**

Paeonies are always free from disease and insects do not bother them. They are hardy, thrifty growers, bloom freely, and nothing will add more to the beauty and attractiveness of a lawn.

Eight Choice Novelties in Carnations

Price, 20 cents each; set of 8 Sorts, \$1.25, Postpaid.

AFTERRGLOW. A giant among Carnations, being of very rank growth and producing all season long its very large cerise-colored flowers in great freedom. One of the finest sorts extant.

BOBOLINK. A delightful fancy Carnation of a pretty shade of pink, lightly splashed with scarlet. Very distinct from any sort heretofore produced and will rank high among Carnations as soon as its merits are discovered.

SARAH HILL. A beautiful pure white, of excellent texture and extreme size. Very free flowering with blooms conspicuously displayed above the foliage. 15c.

O. F. BASSETT. A splendid new scarlet Carnation which blooms throughout a long season. Flowers large, finely formed, delightfully scented and produced on long stems. No finer sort of this color is to be had.

MAY DAY. This Carnation has that exquisite shade of pink so greatly in demand, but not found in our standard sorts; what may be termed pure, medium pink without either salmon or cerise shadings. Form, size and calyx grand.

SUNBEAM. Strong grower and free-flowering; long, strong stem; flowers three inches in diameter and a deep golden-yellow with faint red stripes.

PURPLE GEM. A grand departure in color from all older sorts, being a rich shade of purplish plum color; very large and handsome flowers on stout stems.

MAGGIE MOORE. The largest and best of its color, a bright dazzling crimson. Flowers often measure three inches in diameter, and are well supported on long stiff stems. A wonderfully free bloomer, always full of buds.

Everblooming Carnations

Price: 15c. each; four for 50c.; set of twelve fine varieties, \$1.25, postpaid.

BEACON. A bright, deep scarlet; a most perfect color, soft, yet brilliant; the flower is of the largest size and perfectly double; nicely fringed; sweet.

BOUNTIFUL. Color pearly white, very large, with heavy glistening petals, delicately fringed; very fragrant.

ENCHANTRESS. Flowers very large, borne on long stems. The color is a superb shade of flesh-pink. An early and continuous bloomer.

MRS. THOMAS W. LAWSON. Simply superb, both in form and color; brilliant dark pink, of immense size.

PRESIDENT ROOSEVELT. Magnificent, bright, rich crimson; large, perfectly double flowers.

WINONA. Fine free-blooming variety, possessing size, fragrance and desirable color. Glistening rose-pink flowers on stout, straight stems.

VICTORY. Regarded by many as the finest scarlet Carnation. In color it is the most intensely brilliant scarlet; stems long and firm, holding the flowers upright.

WHITE PERFECTION. The grandest white, and most prolific bloomer, of enormous size; full and double.

WHITE ENCHANTRESS. A pure white sort from the famous variety Enchantress, more widely known than any other sort. Superb.

WINSOR. This variety has been greatly admired wherever it has been seen for its desirable color, being a beautiful delicate shade of pink; flowers of large size and very freely produced; plant of grand habit and vigorous growth.

ROSE ENCHANTRESS. Very large rose-pink flowers on fine long stems. A beauty.

VIOLA ALLEN. One of the largest Carnations. Ground color of flower creamy white, penciled with light pink.

Flowering Begonias

Price: 10c. each; set of Six Sorts, 50c.

CUPREA—A fine, erect Begonia, with dark, rough leaves. The panicles of unopened flowers are bright red with surfaces like plush.

DEWDROP—Pure white, with shining deep green foliage; always in bloom.

INCARNATE—Fine free-flowering Begonia, especially fine during winter. Pretty pink flowers in drooping clusters.

MARJORIE DAW—Foliage deep glossy green, flowers a beautiful shade of salmon-pink produced in long, drooping clusters.

MARGUERITE—Bronzy green, with purple cast; large trusses of cream and rose-colored flowers.

PRESIDENT CARNOT—A strong growing variety of stiff, upright habit; foliage large, upper side deep green, under side purplish red; flowers beautiful coral red in large pendant panicles.

REX BEGONIA.

Grown for the beauty of their foliage. The leaves are large, variegated and margined with a peculiar silver-metallic gloss. The most ornamental of window plants; also useful in baskets and vases. We offer twenty of the most distinct and handsomely marked varieties.

Price, large plants, 25c. each



REX BEGONIA

New Japanese Chrysanthemums

Price: 15c each; set of 10 sorts, \$1.25.

AMERICAN BEAUTY—Pearly pink, brighter in the depths; very early; incurved Japanese, of large size and splendid proportions.

DIRECTOR GIRARD—Rich tawny yellow and golden bronze; very large reflexed petals. One of the finest for exhibition.

GLORIA—Extra early, of large size and fine form; color, a pleasing shade of lavender pink; very free in growth, with good stem and foliage; the best early pink.

GOLDEN EAGLE—Deep, bright, golden yellow, of shining texture; very large, bold flowers, with lovely twisted petals.

INDIANA—Light yellow, petals broad, opening in a whirl; when matured assuming a convex form and irregular outline; very large.

MONEYMAKER—Beautiful, recurved, white with interlacing petals, outer ones reflexed closely around the stem, inner ones building up full to the center, forming a plumy globe.

MRS. W. H. BUCKBEE—White, very large bold incurved flower, lower petals drooping, giving it a very graceful appearance; one of the grandest introductions.

MATCHLESS—Largest and most beautiful dark crimson scarlet yet raised; looks like crimson velvet; the color long desired. Superb in the garden.

PHENOMENAL—Very large creamy white flower, touched with shades of pearl and yellow. Petals tubular, twisting and interlacing in a most beautiful manner.

PRESIDENT TAFT—One of the grandest new varieties; color, a pure snow-white, with broad, solid, incurving petals, overlapping each other.

OCTOBER FLOWERING JAPANESE CHRYSANTHEMUMS.

Price, 10c. each; set of 10 sorts, 75c.

BLACK HAWK—A velvety crimson-maroon; outer petals very much reflexed and center erect, making a very large flower.

CLEMENTINE TONSET—Snowy white, high built, incurved bloom. A beautiful flower.

COMELETA—Bright rich golden yellow, incurved flowers, produced in great profusion early in the season. A most satisfactory variety for the garden.

EARLY SNOW—Snowy white, of perfect incurved form, very large; this is undoubtedly one of the most useful varieties ever introduced.

GOLDEN GLOW—A handsome, yellow variety of pure tint; splendid in size and form, and a magnificent addition to the very early varieties.

J. K. SHAW—A beautiful light shade of pink, having excellent keeping qualities; with extra good foliage and stem. A grand commercial flower.

OCTOBER FROST—Early, white, coming into bloom the first week in October; a fine, incurved flower.

SOURCE D'OR—Golden, twisted flowers, tipped yellow and shaded with brown. One of the most satisfactory for general planting.

WM. SIMPSON—A very early and very large, deep pink variety; fine double flowers on a stiff stem; an excellent keeper and very valuable for early cut flowers.

WILLOWEROOK—Beautiful, pure white variety, petals twisted and arranged in a most artistic manner.

Choice Double Fuchsias

Price: 10c each; Set of 6 Sorts, 50c.

COMMANDANT MARCHAND—Fine, large and elegant form, sepals long and reflexed, pure red; corolla large double white.

DR. BROOKS—Rich, dark blue corolla, with crimson petals. A beautiful variety; never out of bloom.

JUPITER—This is a grand mammoth double flowered Fuchsia; flowers of enormous size, very large, rich violet purple corolla; tube and sepals bright crimson.

MRS. E. G. HILL—A grand double white variety; very large and beautiful form; a splendid growing variety.

ROSE PHENOMENAL—A fine, large, rounded corolla with strongly recurved sepals. The corolla is a delicate heliotrope color, suffused with rose.

WHITE GIANT—Superb double white variety; tube and sepals bright scarlet; corolla large, double and waxy white; an excellent grower and profuse bloomer.

Double Fringed Petunias

Price: 10c. each; seven sorts, 60c.; fourteen plants, any variety, \$1.00.

CHAMPION—A unique and beautiful variety, light lavender-pink with white edges, veined and marbled with brownish crimson.

EDNA—Deep violet-crimson, mixed with white, clear white on the edges of the petals.

FANTASY—A grand variety, deeply fringed, large and very double, pure white, irregularly splashed with violet.

MAJESTIC—An extra large, fine double fringed variety; deep violet-crimson with a velvety finish.

PINK BEAUTY—A lovely shade of light clear pink; one of the most beautiful yet raised.

SEA FOAM—For purity of color, form, size and vigor of growth, this variety is unsurpassed in double white Petunias.

WONDERFUL—A distinct shade of heliotrope, beautifully fringed.

New Heliotropes

Price 15c each; set of 4, 50c postpaid.

ALBATROSS—Elegant dwarf, bushy growing, new variety of great merit; large panicles of pure white flowers in great profusion all season; the best white variety to date.

HEAVENLY BLUE—Large, close panicles of exquisite light blue flowers, with white eye. Grows vigorously and flowers abundantly; very fine for bedding out, for which purpose we offer it at \$1.00 per dozen.

LAVENDER QUEEN—Enormous florets, very large trusses of bloom; color, a beautiful shade of lavender, suffused with rosy mauve. A dwarf, robust grower and very free and continuous bloomer.

ROYAL PURPLE—Very large and fragrant; color deep violet purple, with white eye; very floriferous and cannot be too highly recommended for bedding out, for which purpose we offer it at \$1.00 per dozen.

FERNS



FOR FERN DISHES—Attractive assortments, sufficient for 5 to 6 inch pans. From 75c to \$1.00, postpaid.

Japanese Fern Balls

Directions for Starting—Place ball in water for 15 minutes, and then suspend in any desired position, or place in a shallow dish; repeat every two days until growth is started, after which sprinkle occasionally as required. They need very little sun.

Price of Balls in dormant state, each 75c.

Asparagus Sprengerii (Emerald Feather)—Handsome and valuable evergreen trailing plant for the house or conservatory; its beautiful sprays of lovely green, feathery foliage can be cut freely.

Nice plants, each, 20c; large plants, 35c to 50c. **Ostrich Plume Fern**—One of the most wonderful and beautiful introductions of the present age; this new sort is a sport from the well-known Boston Fern; has a beautiful feathery appearance, and is one of the grandest of decorative house plants.

Nice plants, 20c to 35c each; specimen plants, \$2.50 to \$3.00.

 We can supply any of above in all sizes from 2½-inch pots up to large specimen plants.

Prices, from 35c to \$3.00 each.

"Mastodon Pansies"

In Bloom, See page 59

From March until June we offer our famous "Mastodon" Pansy plants in full bloom—none finer in the world. Put up one dozen in a basket. Price, 60c to \$1.00 per basket by express, buyer to pay charges. You will not be disappointed in these.

Giant Pansies

NEW GIANT PANSIES—Our Giant Plants are in a class of their own and cannot be compared to any other Giant Pansies, no matter where grown. We know that their equal is not produced in this or any other country. A trial basket will convince you. They are the best value ever offered in a bedding plant.

Each, 5c; per dozen, 50c; by mail, 75c dozen.

Coleus

Our New Coleus comes in wonderful colors and combinations, far surpassing the older strains in beauty and brilliancy. We can supply all shades and variegations. **Choice plants 15c each; \$1.50 doz., postpaid.** Write for prices on large lots.

WE offer a splendid list of Ferns, including some of the newest varieties as well as the older sorts. All plants are in fine growing condition, and well rooted.

Florists wishing stock of the new varieties write for prices.

New Ferns

Birds Nest (Asplenium Nidus Avis)—A rare and beautiful fern with broad outer leaves; centre curiously formed like a nest; color is deep green; an attractive pot plant for exhibition.

Well-grown Specimens from 4-inch pots, \$1.50 postpaid.

Crested Scott Fern (Nephrolepis Scholzei)—The ideal crested fern—New 1910—A sport of the Scottii and a great improvement; stands erect, arches gracefully and never breaks down; a perfect fern in every way; growth is open, giving the centre plenty of air, adding to its healthfulness.

Price, from 4-inch pots, fine well-rooted plants, \$1.00 postpaid.

Scott Fern (Nephrolepis Scottii)—

Price, from 3-inch pots, 75c, postpaid

Maiden Hair (Adiantum Crevicanum)—This is the hardy Maiden Hair Fern so valuable to florists for cutting, and must not be confused with the older sorts that cannot be successfully handled; this fern grows freely under almost any condition inside, and if you have not been successful with "Maiden hair" ferns as a pot plant, try this one; it is a sure grower.

Good plants from 4-inch pots, \$1.00 postpaid.

Popular Hardy Ferns

Asparagus Plumbosus (Climbing Lace Fern)—A finer and more delicate plant than the Sprengerii, but hardy and easily grown; very satisfactory for window and house culture; the fronds retain their freshness for weeks when cut; fine for floral decorations.

Nice plants, each 20c; large plants, 25c to 40c

Boston Fern—One of the most beautiful and useful of house plants; is of easy culture.

Nice plants, each 20c; large plants, \$1.50 to \$3.00.



Sweet Violets

Price, each, 15c; 6 sorts, 75c

Alaska—A grand sort, well adapted to garden culture; enormous double flowers of a deep blue-black color and powerful fragrance.

Lady Hume Campbell—Large double flowers of a beautiful light blue color; very free-blooming and exquisitely fragrant.

California—Very showy and beautiful flowers of enormous size, deep violet blue; deliciously fragrant; single.

Princess of Wales—Flowers single, of gigantic size; color a very rich shade of blue, and extremely fragrant.

Marie Louise—A constant bloomer, producing great quantities of large, double flowers, lovely deep violet purple.

Swanley White—The finest and best double white violet in cultivation.

Popular Bedding Plants

During the months of April and May we have thousands of the following hardy bedding plants, price per dozen by express at buyer's expense:

Alyssum .....	.35	Daisies .....	.50	Lobelia .....	.35	Phlox .....	.50
Asters .....	.25	Forget-Me-Not	1.00	Marigold .....	.50	Salvia .....	.50
Balsam .....	.50	Geraniums	1.00	Mignonette .....	.50	Stocks .....	.35
Carnations .....	.50	Heliotrope	1.00	Petunia .....	.50	Pansies .....	.50
Cosmos .....	.35	Hollyhock	1.00	Pansies .....	.50	Verbena .....	.50

For description of these flowers, see Flower Seed Department. If wanted by mail, add 25c per dozen for postage, and if it does not require this amount, we will put in extra plants.

Perennial Phlox

Hardy as an oak, increasing in beauty each year, few things are as beautiful and satisfactory. The marvelous new colors, beautiful foliage and easy culture, make this choice flower one of the most desirable. We offer the following fine collection which we have grown:

Beranger	White with pink eye; dwarf.	La Vague	Pure mauve, red eye; medium.
Bacchante	Rose with crimson eye; tall.	Facha	Deep pink with red and carmine purple eye; dwarf.
Clara Benz	Rose with deeper eye; dwarf.	E. P. Struthers ..	Rose carmine, red eye; tall.
Caran d'Ache ..	Red, rose shading, white eye, medium.	Miss Lingard ..	Fine early white; tall.
Eclaireur	Rose with lighter halo; tall.	Geo. A. Strohlein.	Bright scarlet, red eye; medium.

Price, Strong Flowering Roots, each, 15c; doz., \$1.50

Climbing and Trailing Plants

Ampelopsis

Quinquefolia—Virginia Creeper—Has large, luxuriant foliage, which in autumn assumes the most gorgeous and magnificent color; one of the finest vines for covering trellises or verandas.

Each, 35c to 50c

Veitchii (Boston Ivy, Japan Ivy)—This is the handsome creeper so generally used for covering brick, stone and wooden walls; vine grows rapidly; the leaves are of a shining, glossy green, taking on beautiful autumnal coloring.

Each, 35c to 50c

Trumpet Vine

Tecoma Grandiflora (Chinese Trumpet Vine)—A vigorous, sturdy climber of bushy growth, with bright green leaves and large brilliant scarlet flowers; borne in clusters; blooms profusely until frost; needs protection in severe climates.

Each, 75c

Tecoma Radicans (American Trumpet Vine)—Similar to Chinese, but a little more hardy; flowers are scarlet, with orange red inside of petals; a rapid, high climber and free bloomer. Each, 75c

Honeysuckle

Halleana, Japanese—A vigorous climber, with pure white flowers, changing to yellow; evergreen; very fragrant.

Each, 35c to 50c

New Belgian, Sweet-scented—A magnificent, new honeysuckle—the finest yet produced; remarkable for the large size and delicious fragrance of its flower; dark, rich red and creamy yellow; a healthy, vigorous grower, and blooms continually the whole season.

Each, 50c

Jasminum

Nudiflorum—Fragrant, yellow flowers. Each, 50c

Officinalis—Flowers pure white, sweetly scented.

Each, 50c

Kudzu Vine

The wonderful Kudzu Vine of Japan is an extraordinary climber, with large beautiful deep green foliage, making a dense shade; grows rapidly and climbs high. Imported roots, each, 50c, doz., \$4.50

Clematis

One of the most beautiful and useful climbers, adapting themselves to every requirement. Their magnificent flowers, borne in greatest profusion in beautiful shades of lavenders, purples, reds and white, make them especially attractive. Clematis requires a rich loamy soil, but manure should not touch the roots. Cut out the weak and surplus branches in the spring, and tie the vine up well to its support. We offer the best of the hardy large flowering varieties.

Ramona—Beautiful lavender; best of its color.

Montana—White, anemone-like flowers, May to July; very hardy, rapid grower.

Henryi—Fine, large, creamy white flowers; a strong grower and very hardy.

Jackmanii—Intense violet-purple, with a rich velvety appearance; distinctly veined. The most popular and finest Clematis we have.

Mad. Ed. Andre—A beautiful, new variety; flowers red, large and abundant.

Choice plants of above sorts, each, 60c;

Large plants, each, 75c to \$1.00, postpaid

Clematis paniculata—A strong, rapid and vigorous grower; it produces sheets of medium-sized, pure white flowers of the most pleasing fragrance; it is perfectly hardy and well adapted for covering trellises or fences.

Choice plants, each, 25c to 50c; large, 40c to 60c

Ivy

Common English—Thick, leathery evergreen leaves; strong grower.

Good roots, each, 25c

Wistaria

W. Sinensis—Chinese Wistaria—One of the most elegant and rapid growing of all climbing plants; grows 15 to 20 feet in a season; has long pendulous clusters of pale blue flowers in May and June and in autumn.

Choice plants, each, 35c to 50c; large, 75c to \$1.50

W. Multijuga—Similar to above, but flowers are darker.

Each, 75c to \$1.50

W. Brachybotrys—White flowering.

Each, 75c to \$1.50

GERANIUMS

THE popular demand for Geraniums has encouraged us to provide an ideal collection of superb new varieties which we know will be appreciated by our customers. To repeat the words of a famous grower, "We believe in Geraniums." They grow beautifully throughout the entire year, making cheery house plants, and are our finest hardy bed and border plants. No other flower has a wider range of usefulness.

Geraniums for Pots and Bedding



MRS. E. G. HILL

SIX FINE SINGLE VARIETIES.

Price, postpaid, 10c each; set of 6 sorts, 60c.

GERTRUDE PEARSON—Flowers bright pink, upper petals shaded to white.

JACQUERIE—Rich, vivid crimson; immense trusses.

JAMES KELWAY—Brilliant scarlet, of the most dazzling shade; very large trusses and florets.

MRS. J. M. GARR—Trusses large and of perfect form; color pure snowy white.

MRS. A. BLANC—Light salmon, blended with darker shades; center and edge of petals pure white; extra fine.

SAM SLOANE—An extra fine velvety crimson maroon carrying immense trusses.

SIX FINE DOUBLE VARIETIES.

Price, postpaid, 10c each; set of 6 sorts, 60c.

FRANCIS PERKINS—The finest pure pink variety we know of.

JOHN DOYLE—Very large and full trusses of double bright, velvety scarlet flowers.

LA FAVORITE—Trusses very large; flowers pure snow white.

MME. JAULIN—A truss of grand size, delicate pink, bordered with pure white.

S. A. NUTT—The best of the rich, dark crimson varieties; trusses massive.

THOS. MEEHAN—Rich various rose color, upper petals marked with orange.

10 Rare New Single Geraniums

Price, 15 cents each; set of 10 Sorts, \$1.25.

GABRIEL MONTOYA—A most distinct and striking shade of reddish purple; large, round, full flowers; immense trusses; free flowering; strong, robust grower and grand habit.

HALL CAINE—Brilliant orange scarlet, suffused rose; a unique and charming self color, flower of giant size; grows well, is free blooming and desirable either as bedding or pot plants; one of the finest Geraniums ever grown.

MAXINE KAVOLEVSKI—Odd shade of orange red; very distinctive, splendid bedder, vigorous, handsome, a dependable sort.

MME. MOSNAY—Beautiful shade of Geranium lake; upper petals shaded violet to a white center; flowers freely produced in enormous trusses; clean, strong, robust, healthy grower.

MAD. CHAPOTAN—Delicate light pink; large flowers of good habit, nice foliage; specially desirable as a pot plant.

10 Rare New Double Geraniums

Price, 15 cents each; set of 10 Sorts, \$1.25.

EDMOND BLANC—Semi-double; deep carmine, red tinged violet, with large white eye. We have found this to be one of the finest new sorts out.

DR. PHILLIPE TISSIE—Robust grower; large trusses borne on long stems; light crimson, shaded through magenta to grand white center. Beautiful and striking.

FLEUVE BLANC—Color pure white; very large, handsome, rich green foliage, zoned with dark green; growth dwarf, vigorous and compact.

GENERAL SAUSSIER—Exquisite shade of carmine, shading to white center; large trusses.

JAMAIQUE. Grand, large trusses of enormous flowers of rich cherry red.

MME. BARNEY. A splendid deep pure pink, of a lively shade and grand habit of growth; dwarf and branching.

LADY WASHINGTON—(Pelargoniums) In splendid assortment. Price, Each 15c; doz. \$1.50. Large Plants, 35c; doz. \$3.50.

M. ANATOLE ROSELEUR. A most beautiful shade of deep rose pink, rivaling in beauty and freshness the color of the Paul Neyron rose, a color that has been more admired than that of any Geranium we have on our place.

MME. CHARROTE. Clear, distinct rosy salmon, shading lighter toward the outer edges—a combination that is pleasing and attractive.

MME. LANDRY. A distinct salmon pink, with a slight shading of scarlet; habit semi-dwarf, vigorous; broad, heavy, deep zoned foliage.

ORNELLA. A magnificent new variety, which we are confident will meet every requirement of a semi-double scarlet Geranium, either as a pot plant or a bedder. The color is so intense scarlet as to dazzle the eye.

NEW GERANIUMS—Continued

The new varieties we offer are of the most brilliant and distinctive coloring, fine habit of growth and free, luxurious bloomers. Price of the following finest new Geraniums:

Mailing size, each 20c; per dozen \$2.00; postpaid.

From 4-inch pots, each 35c; per dozen \$3.50; express, purchasers' expense.

New Single Red

Jean Tarbel (Braunt 1908)—Clear brilliant red, superb large flower in fine trusses, high above foliage; dwarf, very vigorous and floriferous; splendid bedder.

Eugene Sue (Lemoine 1905)—Brilliant russet orange, effective bedder, large foliage of fine texture, vigorous free bloomer, branching habit semi-dwarf, good.

New Single White and Light

Arvede Barine (Lemoine 1909)—Enormous flower in great trusses; color a clear porcelain white; free blooming.

Mrs. E. G. Hill—Very large trusses of single florets; color, clear salmon, with a white center; one of the finest and most distinctive varieties. See cut.

Variegated Geranium

These make fine bedding or edging plants; are good growers, distinctive and attractive.

Mrs. Pollock—Golden yellow edge, green center, variegated orange red, chocolate zone; good grower.

Madame Languth—Pure white margin, green center, cherry-red flowers.

Silver-Leaved S. A. Nutt—Green-edged white; large flowers, brilliant crimson-scarlet; free blooming, very vigorous; one of the best.

New Ivy Geraniums

L'Elegantea—Flowers white, foliage margined white; fine for baskets.

Mrs. Banks—Lovely shade of blush white, feathered red; semi-double, free-blooming, long erect stems; a true ivy of great vigor; flowers throughout the season; foliage light green.

Pierre Crozy—Bright scarlet, compact grower; makes an excellent bedder; dwarf habit.

Caesar Franck (Lemoine 1905)—Soft rich crimson, with exquisite shading of rose at base of petals; the finest Ivy Geranium.

Hardy Perennial Garden Plants

English Primroses—Finest sorts, from pure yellow to deepest crimson-maroon; early, low-growing, fragrant.

Gaillardia Grandiflora—Splendid large flowers; combination coloring of yellow, brown, crimson, orange; height 2 feet; bloom until frost; fine for cut flowers; hardy everywhere.

Coreopsis, Golden Sunbeams—Beautiful golden-yellow flowers on long stems; always in bloom; fine for cutting.

Campanula—New Double White—A dainty and beautiful flower, 2 to 2 1/2 feet high, bearing spikes of large snow white, prettily formed, fully double blossoms. Pinch off the old flowers and the plant will bloom continuously. One of the best border or bedding plants ever offered.

Hollyhocks—Old favorites now in great demand. Double and Single—White to deep maroon; extra fine strains.

Poppy, Iceland—Beautiful dwarf-growing, continual producer of lovely cup-shaped flowers; yellow, orange and white.

Rudbeckia, Golden Glow—Bears in greatest profusion immense, double blooms, large as Dahlias, of the brightest golden yellow; hardy everywhere.

Shasta Daisy, Alaska—This new "Shasta" is covered with immense fluffy white blooms, with golden eyes, from July until late fall; long stems; fine for cutting; one of our best hardy border plants.

Helianthus Sparsifolia—Superb new single sunflower of striking beauty; blooms late in the season. A real gem among hardy plants. We especially urge you to give this a trial.

Poppy, Oriental—Immense rich orange scarlet flowers.

New Double Red

Houlier Lenglet (Braunt 1909)—Brilliant vermillion red, enormous blooms semi-double, good foliage, vigorous, splendid bedder.

Habert Dys (Braunt 1909)—Compact grower, good habit, free blooming, grand flowers on long stems; color, red madder, with darker edge; round in form, perfect, semi-double; one of the best.

New Double White and Light

Mad. Recamier—Lovely, snow white; the finest double white Geranium; vigorous, free flowering, with every good quality.

Madeleine Lepine (Braunt 1907)—Splendid salmon-pink, outside of petals silvery rose; long stems; free blooming, very lasting, fine compact grower. Will keep for days when cut.

Scented Leaved Geraniums

Beautiful and useful for their highly fragrant foliage; useful among cut flowers, for toilet waters, fragrant jars, flavoring jellies, etc.; the large flowering sorts make attractive pot plants.

Price, each, 15c; doz., \$1.50, postpaid.

Apple—True apple scented.

Balm—Large flowers; strong grower; very fragrant.

Lady Plymouth—Variegated Rose Geranium; green and white, golden tinged; fine pot plant.

Lemon—Small glossy green foliage; delightful lemon scent.

Nutmeg—Small, light green foliage; true nutmeg scented; in cultivation since 1774.

Rose Geranium—The old favorite; has been known for more than 300 years.

Cactus Flowered Types

An odd class, having fully double star-shaped flowers of good size and pleasing colors; an attractive novelty; grows well.

Fire Brand—Rich scarlet.

J. R. Greenhill—A soft shell pink.

Price, each, 15c; doz., \$1.50, postpaid

Helianthus, Soleil D'Or

Graceful golden yellow flowers; petals quilled; always in bloom.

HELIANTHUS





WE offer only the best of the standard varieties and the newer sorts that have been tested in field trials. You will find them true to name and as represented. We number among our customers the most successful rosarians in the Northwest, and if you entrust your rose order to us you can feel assured that there will be careful selection and no substitution. If you do not find what you want in this catalog, write us. We can supply many varieties not listed.

In our favored section Roses attain a perfection seldom equalled, but you cannot expect them to thrive and bloom unless you care for them. We offer the following simple suggestions.

Soil—Any good, well-drained garden soil enriched with fertilizer will give excellent results. If heavy clay soil mulch well with burnt earth and manure, rotted sod or leaf mold.

Watering—When setting out, water regularly until roots are well set; then about once a week unless the ground is very dry; in such cases more often. Do not get the foliage wet after a hot day. This causes mildew.

Abbreviations

H. P.—**Hybrid Perpetual**—The hardiest of all roses; vigorous in growth and easy of culture, producing large flowers, fine in form and fragrance.

T.—**Tea**—One of the best classes of roses, and truly ever blooming. They are hardy in this section, frequently wintering without any protection, although during our coldest weather and in cold sections they should be protected with a covering of fir boughs, straw or burlap.

H. T.—**Hybrid Tea**—Most of these are as free flowering and as constant bloomers as the teas, and are harder, but, as a rule, not so hardy as the H. P.'s.

Beautiful Roses of Recent Introduction

Many of these rare new Roses were imported at great expense, especially for Rosarians.

— One each of these 14 new Roses, \$10.00 prepaid. All two year field grown plants.

DUCHESS OF PORTLAND (H. T.)—One of the best Dickson introductions; a lovely pale yellow with thick leathery petals, full and perfect form; hardy, robust rose blooming earlier and more freely than "Kaisserin"; long stems; lovely in bud or flower, and a good keeper. Gold medal N. R. S. Price, 60c

FRIEDRICHSRUH (T.)—Blood-red, large, full, of perfect form, and flowers continuously; excellent habit of growth. Awarded gold medal at Düsseldorf. A valuable addition to the tea section. Price, \$1.00

IRISH ELEGANCE—Large single golden bronze flowers of great beauty, free and constant bloomer, with deep bronze foliage, making a most handsome and unique combination that for garden decoration cannot be excelled. Awarded gold medal N. R. S. Each, 50c

IRISH HARMONY—Single, saffron yellow, heavily crayoned claret in bud, when expanded changes to creamy white; large, lasting, floriferous; a vigorous grower, and good companion for Irish Elegance. Price, 75c

ROSARIANS who desire the 1910 novelties should send in their list of selections at once. We can often furnish a few, but the supply is never sufficient to catalog.

When planting cut back freely, and the bush will recover quickly.

Fertilizer—Our odorless commercial fertilizer, Bone Meal, Tankage or Blood will give excellent results, and should always be applied after the plant starts its growth.

Finally—Keep the surface well worked around the roots. This is as necessary as water or fertilizer.

Shipping

We always send all our two-year-old rose bushes charges collect by express or freight, packing them so they will ship safely, even though they should be on the road for two weeks or more.

If necessary, we can send small two-year-old bushes by mail at an additional cost of 7c each to cover postage, but in such cases we always prune the tops and roots ready for planting.

JEAN NOTE (H. T.)—Lovely chrome yellow, passing to pale cream yellow; very large well-filled flowers, vigorous and free blooming. Will become a great favorite, as it is a valuable exhibition rose. Price, \$1.00

LYON (Pernetiana)—The Lyon is a beautiful shrimp pink with salmon and chrome yellow shadings. Large coral red buds beautifully formed; full globular flowers of rare beauty; a continuous and free bloomer. Lyon is the "perfect rose," only one scoring 100 points. Gold medal and special certificate awards. Price, \$1.00

MARQUISE DE SINETY (H. T.)—Golden orange shading to fiery red, large double flowers, of good form, very beautiful and attractive. A splendid garden rose for summer blooming; vigorous and hardy. One of the grandest of the new roses. Price, \$1.00

MRS. AARON WARD (H. T.)—Color a shade of Indian yellow washed with salmon rose; large size, cup-shaped, very full and very floriferous. Long beautiful buds, petals reflexed. Fine bronze foliage, very hardy and vigorous. Price, 75c

RARE AND BEAUTIFUL ROSES—Continued

MRS. EDWARD MAWLEY (T.)—Beautiful silvery pink, with creamy yellow suffusion at base of petals; a magnificent rose of finest form, extra long pointed buds; petals of great substance, beautifully reflexed; buds solid, flowers full; free-blooming, vigorous grower, and good keeper; a gold medal rose of distinctive form and great value. (See cut.) **Price, 60c**

MY MARYLAND (H. T.)—Beautiful bright pink, with paler edges; delightfully fragrant; robust grower and very free flowering; flowers full and good keeper. This is the most popular rose novelty of the day, and best pink of its color; specially fine for florists, as well as being one of the grandest garden roses. **Price \$1.00**

NOVA ZEMBLA (Rugosa)—Pure white, full, beautiful form; sweetly scented; very vigorous, rapid grower; sport from Conrad F. Meyer; commended as a great acquisition by no less an authority than Alexander Dickson. Give Nova Zembla a trial. The best new white. **Price, 75c**

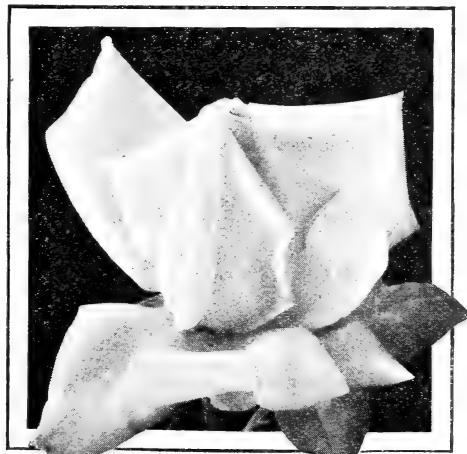
PRINCESS MARIE MERTCHERSKEY (H. T.)—A dainty shell pink, suffused with rosy carmine; perfect buds, fine long stems, full flowers of good form; a splendid garden rose and one of the best pinks for florists. Princess Marie is a real gem, and will please you. **Price 75c**

RHEA REID (H. P.)—A new American rose which can best be described as being as red as a "Richmond," as large as an "American Beauty," with the fragrance of "La France," and blooms continuously, flowers being borne on long stems; very hardy and vigorous. Gold medal Paris, 1908. **Price, 75c**

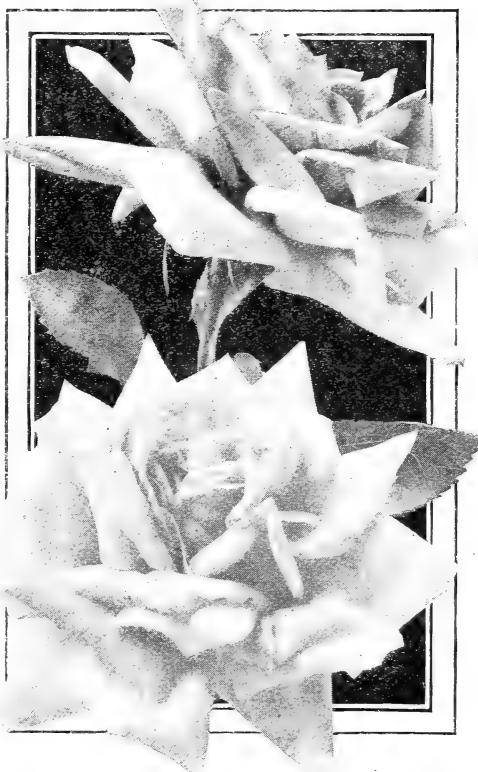
WM. SHEAN (H. T.)—Pure bright pink, veined with ochre, large perfect form, pointed bud, of fine substance and a grand exhibition rose. Gold medal N. R. S. **Each, 75c**

Grand New Garden Roses

Large Two-year Field Grown Plants: 40c Roses, \$4.00



MRS. EDWARD MAWLEY
SOLEIL D'OR (Pern.)—(Golden Sun)—The first of a new type and from which the wonderful Lyon Rose was developed. A perpetual bloomer, robust grower, brownish wood, foliage beautiful, bright green and scented. Flowers very double, most beautiful when full blown, a superb color, varying from gold and orange yellow to reddish gold and shaded with nasturtium red. Delightfully fragrant. **Each, 50c**



LYON

doz.; 50c Roses, \$5.00 doz.; 60c Roses, \$6.00 doz.

AARD'S PILLAR (H. T.)—Rich velvety crimson; fine large full flower, cupped form; a hardy, free-blooming, free-growing garden rose, of finest quality. **Each, 60c**

COUNTESS OF GOSFORD (H. T.)—Clear salmon pink, base of petals shading to saffron yellow, very vigorous; perpetual bloomer; a grand bedding variety. **Each, 60c**

HON. INA BINGHAM (H. T.)—Beautiful shade of bright pink, distinct in form and color, of good substance, highly perfumed; a hardy robust garden rose. **Each, 50c**

SOUV. DE CATHERINE GUILLOT (T.)—Orange red, tinted coppery carmine on deep gold; a rare color; buds of perfect form, large, full, fragrant; a vigorous, free bloomer; fine exhibition sort. **Each, 40c**

WINNIE DAVIS (H. T.)—One of the most beautiful of our light pink roses; lovely bright clear color; splendid form; a grand, hardy garden sort. **Each, 50c**

LADY ASHTOWN (H. T.)—One of the finest pinks, of a rich, deep, silvery tone; flowers large, perfect form; free blooming; vigorous; Lady Ashtown is one of the finest roses grown. **Each, 60c**

MRS. E. G. SHARMAN CRAWFORD (H. P.)—Lovely deep rose pink, outer petals shaded pale flesh, base white, a new and unique shade. Large perfect flowers, free blooming; a grand autumn rose. **Each, 40c**

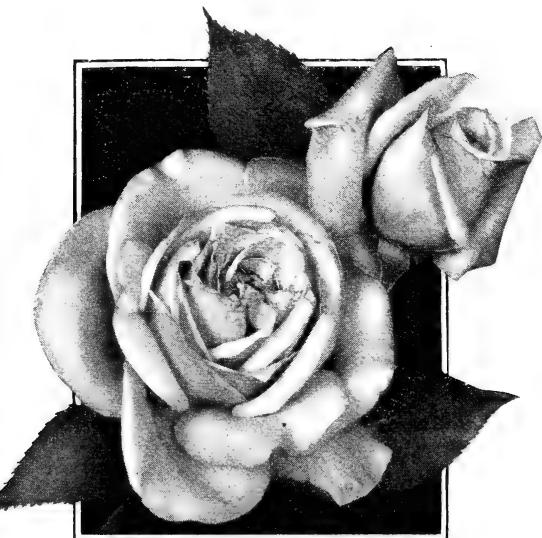
MILDRED GRANT (H. P.)—Delicate pale pink, shading to silvery white in center; grand giant variety of rare beauty; perfectly formed, pointed buds; full flowers of fine substance; a hardy, strong grower. **Each, 50c**

RICHMOND (H. T.)—The most vivid of everblooming red roses; buds and flowers of the most perfect and desirable form. The best of its color. **Each, 50c**

PORTLAND SEED COMPANY'S

8 Superb New Roses

Price one-year-old plants 20 cents each. Set of 8 sorts \$1.25; two-year-old plants 60c each.



PRESIDENT W. R. SMITH (*Maidensblush*)—a superb new rose of American origin, producing elegantly shaped buds and open flowers of much beauty. Of an exquisite silvery pink color and sweetly perfumed.

Our 1911 Rose Special

FRAU KARL DRUSCHKI, HUGH DICKSON and HON. INA BINGHAM

Illustrated on inside of front cover (from our own photos)—**FRAU KARL DRUSCHKI**, **HUGH DICKSON** and **HON. INA BINGHAM**. Three ideal garden roses, that are hardy, vigorous and free blooming, thriving where other roses would fail. We want every one who loves roses to have this trio, and make the extraordinary offer of these three roses prepaid to any address for \$1.00—2-year field-grown plants. Orders will be filled in rotation as long as stock lasts. **ORDER NOW. THIS OFFER IS ONLY GOOD WHEN SOLD IN THIS COLLECTION.** Bought singly or with other selections, regular price.

Killarney Collection

Price: One-year-old plants 15c each. Set of 8 sorts, \$1.00. Two-year-old plants, 50c each.

ADMIRAL DEWEY—The ground color is a light flesh tint, almost white, suffused blush, deepening to a rosy blush in the center. A large, full rose, with broad, heavy petals.

FLORENCE PEMBERTON (H. T.)—Creamy white, suffused pink. Flowers very large and full of perfect form and wonderful substance. Without doubt one of the finest roses it has yet been our pleasure to offer. Each, 50c

FRANZ DEEGAN (H. T.)—A splendid garden rose of unusual beauty and form; strong, healthy grower. The buds are long and pointed. The open flower is broad and full, rarely showing the center. Color, yellow; bright and pleasing. Each 50c

HELEN CAMBIER—One of the loveliest of coppery yellow roses. A new French rose destined to occupy a prominent place.

4 Grand Hardy Everblooming Roses

Price 20 cents each. Set of 4 sorts 60 cents. Two-year-old plants 50 cents each.

CONRAD F. MEYER (*Rugosa*)—Beautiful silvery pink, of grand form and delicious fragrance, hardy in any climate, and the great beauty of its handsome foliage makes it most valuable for a flowering hedge.

FRAU KARL DRUSCHKI (H. T.)—The White American Beauty. Makes splendid buds and immense flowers; perfectly double and delightfully fragrant; large, thick petals; bright, shining green leaves, elegantly veined; a healthy, vigorous grower; and a constant and abundant bloomer.

BETTY—A very popular new rose of rare new shades of ruddy gold, suffused with golden yellow; blooms of enormous size; delicious perfume; large petals of good substance; foliage massive and beautiful; a true everblooming hardy rose.

COUNTESS OF DERBY—Centre salmon, shading into delicate peach, large and finely formed, very large petals, free and fragrant. A strong growing variety producing long pointed buds upon stout canes.

DEAN HOLE—Beautiful silvery carmine, shaded bright golden pink; grand flowers of great substance, perfect in form; vigorous, free branching habit; continuous bloomer; one of the best exhibition roses. Gold medal N. R. S.

FREIHERR VON MARSCHALL—From what we have observed of this variety during the past two years we have had it on trial, it will fill a long felt want. Color dark carmine with long pointed buds, the open bloom of large globular form and great substance.

MADAME LEON PAIN—Robust growth; handsome plum-colored foliage; flowers large, full and free in opening; silvery-salmon, center orange-yellow, reverse bright red and yellow.

MADAME MELAINE SOUPERT (H. T.)—Splendid new orange yellow shaded pink; beautiful long-pointed buds, large size, free blooming; a strong, upright grower; best of its color. Each, 75c

MRS. ARTHUR WADDELL—Fine, robust growing variety of great merit. Buds rosy scarlet, opening into large, reddish salmon-colored flower. Very rich and striking color.

GENERAL MCARTHUR (H. T.)—Dazzling crimson scarlet, a grand American rose of ideal form, delicious perfume and magnificent foliage. Blooms continuously in great profusion, the grandest red rose for garden or cutting. Each, 50c

KILLARNEY (H. T.)—Color, an exquisite shade of deep shell-pink lightened with silvery-pink. Buds are exceptionally long and beautifully formed; delicate tea rose fragrance. Each, 50c

LA. DETROIT—A beautiful shell-pink shading in the center to a soft rose-pink. Reverse of outer petals creamy-flesh tint, strong, healthy grower; prolific bloomer; delightful tea fragrance.

LADY BATTERSEA (H. T.)—This variety has long oval buds, sharply pointed, very striking in form. The color is a bright, cherry crimson; an unusually showy variety. Each, 40c

HUGH DICKSON (H. T.)—Glowing crimson, shaded scarlet; large, full, perfectly formed, delightful perfume, strong grower, perpetual bloomer (should be cut back freely.) After careful comparative tests, we believe Hugh Dickson is the best hardy red garden rose to date. See cut on cover.

J. B. CLARK (H. T.)—One of the finest of the new roses. Its glorious flowers are intense scarlet, shaded blackish crimson, of giant size, finely formed and fragrant; growth vigorous and upright.

Carnival Collection—Choice Roses

Price: One-year-old plants, 15c; set of 12 sorts, \$1.50. Two-year-old plants, 35c each; set of 12 sorts, \$3.00.

AMERICAN BEAUTY—One of the largest, sweetest and best. Color, rich, rosy crimson, shaded and veined in the most charming manner.

BESSIE BROWN—Color, pure white, sometimes faintly flushed pink.

BELLE SIEBRECHT—A true, solid pink of the richest shade, a rare color. The flowers are sweetly perfumed and large, beautifully formed, of long, tapering shape, with high center.

KAI SERIN AUG. VICTORIA—A beautiful rose with elegant, large pointed buds; delicate creamy white; deliciously fragrant; constant bloomer.

MADAME CAROLINE TESTOUT—A grand rose of the La France type, but with flowers larger and finer. Color, bright satiny pink; very fragrant and free in bloom. The official Portland "Carnival Rose."

MAMAN COCHET—This is one of the most beautiful new Tea roses we list. The color is a deep rosy pink, inner side of petals silvery rose.

MADAME ABEL CHATENAY—A free bloomer, beautiful rosy carmine, with darker shadings.

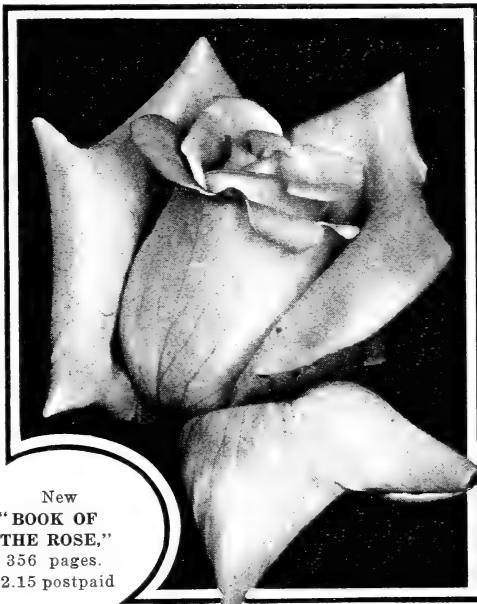
SOUV. DE PIERRE NOTTING—The bloom is very large, perfectly full, of elegant form; has a beautiful long bud; color, orange yellow, bordered in carmine-rose; vigorous, beautiful dark foliage.

SOUV. DE PRESIDENT CARNOT—This is a rose of extraordinary beauty, is elegantly formed, very large, full and deep and deliciously sweet. The color a lovely shell-pink, delicately tinted with golden fawn on rich creamy white.

SUNSET (T.)—A rich golden amber of elegant form and delightful fragrance, large perfect buds

VIRGINIA R. COXE or GEUS AN TEPLITZ—Color, fiery crimson, with a dark velvety sheen, very fragrant. The freest blooming rose in existence.

WHITE MAMAN COCHET—White, grand substance, immense size, exquisitely fragrant, and a free bloomer; buds long and pointed.



New
"BOOK OF
THE ROSE,"
356 pages.
\$2.15 postpaid

DUCHESS OF PORTLAND, Page 84

Duchess Collection of Beautiful Roses

Price: One-year-old plants, 10c each; set of 15 sorts, \$1.25. Two-year-old bushes, 35c each; set of 15, \$3.75.

BRIDESMAID—A fine, clear, dark pink color.

CATHERINE MERMET—Faultless in form, and charming in every shade of color, from the purest silvery rose to the exquisite blend of yellow and rose, which illuminates the base of the petals.

DUCHESS DE BRABANT—Color, a soft, rosy flesh, changing to deep rose, shaded amber and salmon; delightful tea scent.

DUCHESS OF ALBANY—Similar to La France, but more vigorous in growth and much deeper in color. The color is a bright rosy pink, exquisitely shaded. One of the best roses for general planting.

LA FRANCE—Both flowers and buds are of grand size; color, a silvery rose changing to pink.

MADAME FRANCISCA KRUGER—Beautiful coppery yellow, deeply shaded.

MARIE VAN HOUTTE—Of a fine, faultless straw-yellow color; washed and outlined rosy carmine.

METEOR—Remarkably rich, dark velvety crimson; flowers of good size, very double; vigorous, bushy grower, with foliage of the deepest green.

PERLE DES JARDINS—A clear golden yellow, an indescribably rich and beautiful shade.

PAPA GONTIER—Large and semi-double; a vivid cherry red color, shaded yellow, reverse of petals crimson.

RAINBOW—Buds and flowers of large size, color a beautiful shade of deep pink, distinctly striped and mottled with brilliant crimson.

SAFRANO—Bright apricot yellow, tinged orange.

THE BRIDE—One of the finest white roses. The buds are very large and of exquisite form.

VISCOUNTESS FOLKSTONE—Flowers borne on strong stems, with thick foliage; color, delicately tinted flesh, almost white.

WHITE LA FRANCE—A pure white La France, having just a breath of rose-tinted blush.

Each, 50c

Hardy Collection—Hybrid Perpetual Roses

Price: One-year-old plants, 15c each; set of 12 sorts, \$1.25. Two-year-old bushes, 35c each; set of 12 sorts, \$3.00.

ANNA DE DIESBACH—Beautiful, clear, carmine pink; very large, full and delightfully fragrant.

BARON DE BONSTETTIN—Splendid, large flowers, very double and full; color rich dark red.

CAPTAIN CHRISTY—Color is lovely pale peach, deepening at center to rosy crimson.

GENERAL JACQUEMINOT—Bright, shining crimson; very rich and velvety.

GLOIRE DE MARGOTTIN—Brilliant scarlet; the brightest-colored rose yet raised.

GLOIRE LYONNAISE—Color, chamois yellow, deepest at the center, passing to creamy white.

MAGNA CHARTA—Pink, suffused with carmine; very large.

MRS. JOHN LAING—Very free flowering; color, a soft delicate pink, with satiny tinge.

MARGARET DICKSON—Magnificent form; white, with pale flesh center; petals very large.

PAUL NEYRON—Deep, shining rose, double and handsomely formed; blooms freely, the largest variety in existence.

PRINCE CAMILLE DE ROHAN—Very dark, rich velvety crimson, passing to intense maroon.

ULRICH BRUNNER—Extra large, bold flowers, full and globular; color rich, glowing crimson.

14 Select Hardy Garden Roses

Two Year old Field Grown Plants

Prices, each, 35c; \$3.00 per dozen, unless otherwise marked.

ANNA OLIVIER (T.)—A splendid ever bloomer. Very beautiful in bud; flesh color shading to blush. Large and fragrant.

BABY RAMBLER—A Dwarf Crimson Rambler not over 18 inches high, producing large trusses of light crimson flowers; clean dark green foliage; it will flower the year around.

BARONESS ROTHSCHILD (H. P.)—Flowers of immense size; color bright, rosy pink.

COQUETTE DE LYON (T.)—Lovely canary yellow; blooms quickly and profusely the whole season.

ETOILE DE FRANCE—This new crimson rose is of vigorous, healthy growth; color rich, glowing crimson, shaded with vermillion.

ETOILE DE LYON (T.)—Blooms freely, and every flower is a gem, equaling the Marechal Neil in size. Very sweet scented; color, rich golden yellow.

GOLDEN GATE—Creamy white, center and base of petals soft golden yellow, exquisitely bordered with clear rose; buds long and pointed.

IVORY—This beautiful rose is exactly like the well-known Golden Gate, except in color. It is an excellent free bloomer; a clear ivory white.

LIBERTY (H. T.)—Color, rich, fiery ruby, shaded deep crimson; fragrance exquisite.

MADAME DE WATTEVILLE (T.)—The "Tulip Rose"; creamy white with feathery shading of rose around the edge of the petals.

MADAME HOSTE (T.)—Creamy yellow with deep buff yellow center; very large and delicately sweet; a constant and profuse bloomer.

MADAME JULES GROLE—A rampant grower, with very large full flowers of a magnificent satin rose color extra fine.

MABEL MORRISON (H. P.)—Of the purest white; velvety in its appearance; petals thick and shell-shaped; very double and rounded.

NIPHETOS (T.)—Large, graceful buds of snow white.

The Famous Rambler Roses

The Rambler Roses are strong, vigorous climbers, growing ten to twelve feet high in one season. They bear immense clusters of beautiful, fragrant flowers.

We specially recommend Flower of Fairfield and Dorothy Perkins.

Price: 1 yr., 15c each. Any four sorts, 50c. Two-year-old plants, 40c each, except where noted.

THE BLUE ROSE—This is the new rose Veilchenblau or Violet Blue that has attracted so much attention in Europe, and is the first rose of its color ever produced. Violet Blue is a vigorous climber of the polyanthus type, flowers medium size, semi-double, borne in large clusters; color on opening is a rosy lilac, quickly changing to a metallic blue, has splendid foliage of a rich green color that does not mildew. Choice field-grown plants now ready. Each, \$1.00. Order quickly; stock limited.

FLOWER OF FAIRFIELD—Everblooming crimson rambler, brilliant crimson, base of petals white, flowering in great profusion perpetually throughout the season. Flower of Fairfield is a true, everblooming, Crimson Rambler, a splendid grower and a great improvement over the old type; strong field grown plants. Each, 75c

DOROTHY PERKINS—Polyanthus type; color a beautiful bright shell pink, flowers large, very double; petals prettily crinkled; blooms in large clusters of 30 to 40; remain in perfect condition.

PHILADELPHIA RAMBLER—An improved type of the old favorite Crimson Rambler; color, deeper, more brilliant and lasting; flowers perfectly double, borne in great profusion, much earlier than the old type; vigorous, luxuriant foliage, not susceptible to mildew.

WHITE RAMBLER—Flowers pure white, sometimes faintly tinged blush, flowers borne in immense clusters; very vigorous.

YELLOW RAMBLER—Same type and growth as Crimson Rambler, except for color, which is a pure, bright yellow.

Moss Roses

BLANCHE MOREAU—Flowers pure white, large, sweetly perfumed; borne in clusters. Best white moss rose.

CHAPEAU DE NAPOLEON—Splendid rich red, best of its color.

CRESTED MOSS—Bright rose, light edging, well mossed.

SALET—Color, beautiful satin rose; very full and of great beauty; one of the best.

Standard, or Tree Roses

Price of all Tree or Standard Roses, \$1.50 to \$2.00 each, according to size of head. Tree roses are budded or grafted on hardy rose stocks about four feet high. They soon make good sized heads forming a small tree, especially desirable for planting as single specimens, in backgrounds or rows along walks or driveways.

Order any color or variety you wish and we will send it or give you as good a substitute as possible. We aim to have the following varieties in stock: La France, K. A. Victoria, Mad. Caroline Testout, Ulrich Brunner, Grus an Teplitz, F. K. Druschk, Baby Rambler Richmond, Baroness Rothschild, Gen. Jack and Hugh Dickson.

We Make a Specialty of Bedding Plants

For partial list see page 81. For perennial garden plants see page 83.

Dahlias, Geraniums, Cannas, Coleus Gladioli, Perennial Phlox and Asters, in the greatest variety, the newest and best obtainable. All other kinds are of the same high standard of excellence, large, well grown, sturdy plants.

CLIMBING ROSES

Choice Climbing Roses

Price, 1 year, 15c; 4 sorts 50c; 2 years, 35c each.

CHROMATELLA (CLOTH OF GOLD) (C. T.)—A clear, golden yellow, large, very full and double.

CLIMBING BELLE SIEBRECHT (C. H. T.)—Flowers identical with bush type; vigorous climber; hardy. Each, 50c

CLIMBING BRIDESMAID (T.)—Beautiful pink; profuse bloomer.

CLIMBING KAISERIN (MRS. ROBT. PEARY)—Flowers fine, ivory white, of heavy texture, and large size.

CLIMBING LA FRANCE—Identical with the well-known La France; vigorous climber.

CLIMBING METEOR—Rapid grower; rich, dark, velvety crimson flowers.

CLIMBING MADAME CAROLINE TESTOUT—Covered during the whole season with immense globular flowers of the same beautiful shade of pink as seen in the bush sort.

CLIMBING PERLE DES JARDINS—Of vigorous climbing habit; flowers golden yellow, of immense size.

CLIMBING PAPA GONTIER (T.)—A "Native Sport" from the favorite bush Papa Gontier.

CLIMBING WOOTTON—Strong, rapid grower, throwing long, thick canes, bearing large clusters of true Woottons.

GLOIRE DE DIJON—Noted for the great size of its flowers, its delicate tea scent, and its shades of color, being a blending of amber, carmine and cream.

MARECHAL NEIL—A magnificent deep golden yellow variety; so famous as to need no description; grown the world over for its immense yellow flowers; the finest rose of its color in existence.

Favorite Collection—Climbing Roses

Price: Postpaid, 10c each; set of 6 sorts, 50c. Two year-old plants, 35c each.

MADAME ALFRED CARRIERE—Extra large, full flowers, very double and sweet, and a most profuse and persistent bloomer; color, rich, creamy white, faintly tinged pale yellow and blush.

LA MARQUE—Flowers of good size, borne in large clusters; color, pure white.

BEAUTY OF GLAZENWOOD—Bronzed yellow or copper and fawn color. One of our grandest climbing roses. Very hardy and a free bloomer.

REINE MARIE HENRIETTE—A strong, vigorous grower; flowers large, full, and of fine form; color, glowing crimson, elegantly shaded.

REVE D'OR (CLIMBING SAFANO)—Color apricot yellow, with orange and fawn tints; petals of superb and delicate texture.

WILLIAM A. RICHARDSON—Color, rich coppery yellow, flushed with carmine; a very beautiful variety, having few equals.

3 Fine Climbers

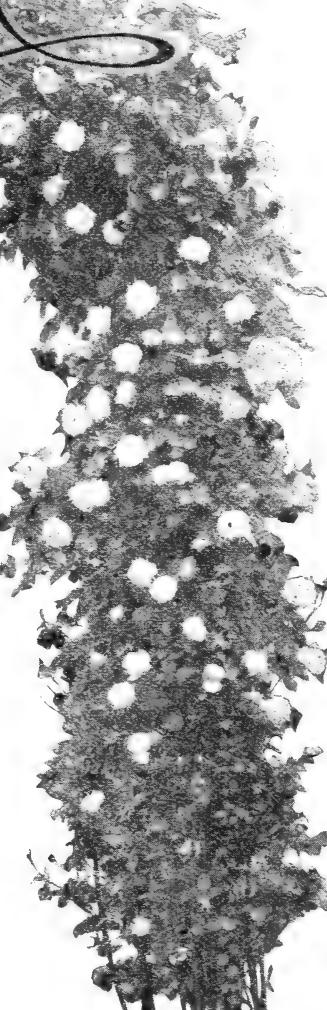
2 Year Old Plants only

ZEPHRINE DROUHIN (H. C.)—Flowers very large and double, of a beautiful bright rose; hardy, rapid climber; foliage luxuriant, without thorns; a free-blooming, desirable rose. Each, 50c

CAROLINE GOODRICH (CLIMBING JACQUE-MINOT) (C. N.)—Free flowering crimson climber. Each, 35c.

DUCHESS D'AUERSTADT—Same type as Marechal Neil, a little deeper in color and much more hardy; a splendid yellow climber. Each, 35c.

Free Premiums We do not pay freight charges at catalog prices, but the liberal premiums we offer (see inside front cover) will generally cover same, sometimes more.



GLOIRE DE DIJON AND REINE MARIE HENRIETTE GROWING TOGETHER

PORTLAND SEED COMPANY'S

Alphabetical List of Roses

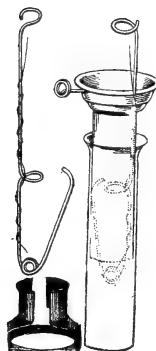
Name and Class.	Price	Page	Name and Class.	Price	Page	Name and Class.	Price	Page
Aards Pillar, H. T.	.00	60	Golden Gate, T.	.35	88	Margaret Dickson, H. P.	.35	87
American Beauty, H. P.	.35	87	Hon. Ind. Bingham, H. T.	.50	85	Mabel Morrison, H. P.	.35	88
Admiral Dewey, H. T.	.50	86	Helen Cambier, H. T.	.50	86	Mad. de Watteville, T.	.35	88
Anna de Diesbach, H. P.	.35	87	Hugh Dickson, H. T.	.50	86	Mad. Hoste, T.	.35	88
Anna Olivier, T.	.35	88	Ivory, T.	.35	88	Mad. Jules Grolez, T.	.35	88
Betty, H. T.	.60	86	Irish Elegance, Single.	.50	84	Moss Roses.		88
Bessie Brown, H. T.	.35	87	Irish Harmony, Single.	.75	84	Nipheta, T.	.75	85
Belle Siebrecht, H. T.	.35	87	Jean Note, H. T.	1.00	84	Princess Marie Mertshersky,	.35	88
Bridesmaid, T.	.35	87	J. B. Clark, H. T.	.50	86	H. T.	.75	85
Baron de Bonstettin, H. P.	.35	87	Killarney, H. T.	.50	86	Perle des Jardines, T.	.35	87
Baby Rambler, Poly.	.35	88	Kaiserau, A. Victoria, H. T.	.35	87	Papa Gontier, T.	.35	87
Baroness Rothschild, H. P.	.35	88	Lyon, Pern.	1.00	84	Paul Neyron, H. P.	.35	87
Blue Rose, Poly.	1.00	88	Lady Ashtown, H. T.	.60	85	Prince Camille de Rohan,		
Countess of Gosford, H. T.	.60	85	La Detroit, H. T.	.50	86	H. P.	.35	87
Countess of Derby, H. T.	.60	86	Lady Battersea, H. T.	.50	86	Rhea Reid, H. P.	.75	85
Conrad F. Meyer, Rug.	.50	86	La France, H. T.	.35	87	Richmond, H. T.	.50	85
Catherine Mermet, T.	.35	88	Liberty, H. T.	.35	88	Rainbow H. T.	.35	87
Coquette de Lyon, T.	.35	88	Marquise De Sinety, H. T.	1.00	84	Ramblers.		88
Climbing Roses.	.88 & .90		Mrs. Aaron Ward, H. T.	.75	84	Souv. de Cath. Guillot, T.	.40	85
Dean Hole, H. T.	.60	86	Mrs. Edward Mawley, T.	.60	85	Soleil D'Or, Pern.	.50	85
Duchess of Brabant, T.	.35	87	My Maryland, H. T.	1.00	85	Safrano, T.	.35	87
Duchess of Portland, H. T.	.60	84	Mrs. R. G. Sharman Craw-			Souv. de Pierre Notting, T.	.35	87
Duchess of Albany, H. T.	.35	87	ford, H. P.	.40	85	Souv. de Pres, Carnot, H. T.	.35	87
Dorothy Perkins, Poly.	.35	88	Mildred Grant, H. P.	.50	85	Sunset, T.	.35	87
Etoile de France, H. T.	.35	88	Madame Leon Pain, H. T.	.60	86	The Bride, T.	.35	87
Etoile de Lyon, T.	.35	88	Madame Melaine Soupert,			Tree Roses.		88
Freiherr von Marschall, T.	.60	86	H. T.	.75	86	Ulrich Brunner, H. P.	.35	87
Friedrichsruh, T.	1.00	84	Mrs. Arthur Waddell, H. T.	.60	86	Virginia, R. Coxe (Grus an		
Florence Pemberton, H. T.	.50	86	Madame Caroline Testout,			Teplitz), H. T.	.35	87
Franz Deegan, H. T.	.50	86	H. T.	.35	87	Viscountess Folkstone, H. T.	.35	87
Frau Karl Druschk, H. P.	.50	86	Mam. Cochet, T.	.35	87	White Maman Cochet, T.	.35	87
Flower of Fairfield, Poly.	.75	88	Mad. Francisca Kruger, T.	.35	87	Wm. Shean, H. T.	.75	85
Gen. McArthur, H. T.	.50	86	Marie Van Houtte, T.	.35	87	Winnie Davis, H. T.	.50	85
Gen. Jacqueminot, H. P.	.35	87	Meteor, H. T.	.35	87	White La France, H. T.	.35	87
Gloire de Margotin, H. P.	.35	87	Magna Charta, H. P.	.35	87	Wm. R. Smith, T.	.60	86
Gloire Lyonnaise, H. T.	.35	87	Mrs. John Laing, H. P.	.35	87			

Foster Rose
TubesFor Rosarians and Cut
Flower Exhibitors

FOR SHOWING ROSES

The Foster Exhibition tubes with adjustable clips, enable you to transfer flowers from one position to another without disturbing their arrangement. A wire holds the flower firmly in any desired position. Tubes afford an ample supply of water close to the rose.

Used at all English shows.
Price, each, 3:c: doz., \$4.00



Likes Our Way

Roses received. Thank you very much. I wish to say that I appreciate you way of doing business. I purchased "Gold Dollars" of you last year. They are fine and the best early berry I have seen. You may depend on my orders in your line in the future.

P. S. Co.'s
APHISCIDE

The Best Summer Spray for

ROSES

See Page 107

Flower Pots

We are agents for the Garden City Red Clay Pots and buy in carload lots. The wholesale trade, florists and nurserymen are requested to send for special prices, stating quantity wanted. They are by far the finest pots offered on this coast.



FLOWER, FERN, AZALEA POTS OR BULB PANS (ALL SAME PRICE).

Size.	Each.	Dozen.	Each.	Saucers	Size.	Each.	Dozen.	Each.	Saucers
2 inch	\$0.02	\$0.20			8 inch	\$0.16	\$1.75	\$0.10	
3 inch	.03	.30			9 inch	.25	2.50	.15	
4 inch	.04	.40	\$0.02 1/2		10 inch	.40		.20	
5 inch	.06	.60	.04		12 inch	.60		.35	
6 inch	.10	.90	.05		14 inch	1.50		1.00	
7 inch	.12	1.20	.07 1/2		16 inch	2.25		1.25	

HANGING BASKETS.

These are well made, having scalloped edge and fancy designs on the lower outside. Better than wire baskets, as plants do not dry out so quickly.

8-inch... Each, 30c; doz., \$3.40 10-inch... Each, 40c; doz., \$4.00 12-inch... Each, 60c; doz., \$7.00

NOTE—At above prices we will pack the pots carefully, but buyer must pay freight or express charges. We buy in carload lots and the wholesale trade, florists and nurserymen are requested to send for special prices, stating quantity wanted.

PAPER FLOWER POTS FOR FLORISTS

Low in price, Moisture Proof, Unbreakable, Light, Convenient.

2 1/2 inch	100.	1000.		
3 inch	\$0.60	\$5.50	1.25	\$9.00

2 1/2 inch	80	7.00	4 inch	1.25	11.00
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Fruit Trees and Bushes

Our large 66-page Nursery Catalog contains a complete list with full description and illustrations of Fruit, Shade and Ornamental Trees, Shrubs, Climbers, etc. We would be pleased to mail a copy of it to anyone wishing it. We simply give below and on the following page a condensed price list. Order any varieties you want at following prices. We can supply all reliable and standard sorts.

APPLES.

	Each.	Per 10.
2 years	\$.30	
1 year, 4 to 6 feet.	.25	

APRICOTS.

	Each.	Per 10.
2 years	.35	
1 year, 4 to 6 feet.	.30	
Select, 2 years.	.40	

CHERRIES.

	Each.	Per 10.
2 years	.45	
1 year, 4 to 6 feet.	.40	

	Each.	Per 10.
Select, 2 years.	.75	

PEARS.

	Each.	Per 10.
2 year old	\$.50	\$4.50
1 year old, 4 to 6 feet.	.40	3.50

PEACHES.

	Each.	Per 10.
2 year old	.40	3.50
1 year old, 4 to 6 feet.	.35	3.00

	Each.	Per 10.
Select, 2 year old	.50	.....

QUINCE.

	Each.	Per 10.
2 year old	.40	3.50
1 year old	.35	3.00

	Each.	Per 10.
Select, 2 year old	.50	.....

CURRENTS.

	Each.	Per 10.
2 year old	.15	1.25
1 year old	.10	.75

	Each.	Per 10.
Extra large, selected bushes	.25	.....

RASPBERRIES.

	Per	Per
Each	10	100

	Per	Per
Best Red Sorts, 2 year	\$.08	\$6.00

GOOSEBERRIES.

	Per	Per
Each	10	100

	Per	Per
Standard sorts	\$.08

	Per	Per
Oregon Evergreen15

CRAB APPLES.

	Each.	Per 10.
Nice stocky trees	\$.35	\$3.00

PLUMS.

	Each.	Per 10.
2 years	.30	2.50
1 year, 4 to 6 feet.	.25	2.00

PRUNES.

	Each.	Per 10.
2 years	.30	2.50
1 year, 4 to 6 feet.	.25	2.00

GRAPES.

	Each.	Per 10.
2 year old	\$.15	\$1.25
1 year old	.12	1.00

BLACK CAP RASPBERRIES.

	Each.	Per 100.
2 year old
1 year old

	Each.	Per 100.
Extra large and strong roots	.25	.....

GOOSEBERRIES.

	Each.	Per 100.
2 year old	\$.12	\$1.00
1 year old	.10	.80

BLACKBERRIES.

	Each.	Per 100.
Standard sorts	\$.08

	Each.	Per 100.
Oregon Evergreen15

BLACKBERRY, ELDORADO.

A valuable new variety; fruit large, jet black, melting, sweet and rich, hardy and very productive, fine for Oregon. **Postpaid, each, 15c; 10, \$1.25.** **By express or freight, each, 10c; 10, 90c; 100, \$8.00.**

HIMALAYA GIANT.

An exceedingly strong, rampant grower of a trailing nature. A heavy cropper. The berries are large, juicy, coreless, sweet and firm, with a delicious aromatic flavor. Its deep rooting qualities enable it to produce a large, firm berry even in a very dry season.

Each, 20c; dozen, \$2.00, postpaid. Freight or express, each, 15c; doz., \$1.50; 100, \$10.00.

NEW MAMMOTH.

This wonderful blackberry is a vigorous grower, of trailing habit; the foliage is large, thick, of a deep green color. It is enormously productive and exceedingly early, ripening three weeks before other cultivated kinds. Fruit is enormous, specimens measuring 2½ inches long; seeds small, soft and abundant; cores small and soft. In size and flavor it surpasses all other varieties of blackberries.

Prices: Two years old, each, 25c; 10, postpaid, \$2.00; 10, by express or freight, \$1.75; 100, \$15.00.

One year old (tips), each, 15c; 10, \$1.25, postpaid; by express or freight, 10, \$1.00; 100, \$8.00.

THE IMPROVED SUPERLATIVE RASPBERRY.

A Berry of Great Merit.

The color is a velvety red crimson. The berry large and firm, with very small, brittle seeds. The healthy, vigorous growth, remarkable productivity, hardiness, immense size, handsome, uniform shape and rich luscious flavor make the "Superlative" peerless among raspberries, and from the shippers' standpoint a most desirable berry, for it is firm, disease-resistant and nearly a week earlier than the Cuthbert in ripening.

Price: Each, 20c; doz., \$2.00 postpaid; freight or express, 1 doz., \$2.00; 100, \$12.50.

LOGAN BERRY.

(Raspberry-Blackberry.)

An exceedingly strong grower. The fruit is larger than the blackberry; color, dark red and produced in immense clusters. Has the flavor of both the blackberry and raspberry. Fruit ripens early, the bulk being gone before the blackberries or raspberries become plentiful.

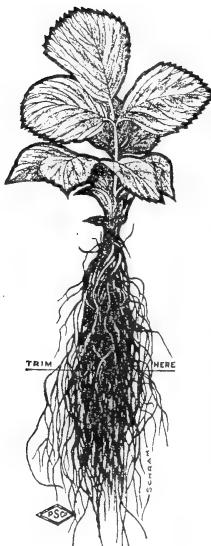
Prices: Two-year-old, 20c each, postpaid; by express or freight, \$1.75 per doz.; \$12.50 per 100.

One-year-old (tips), 15c each; per 12, \$1.50, postpaid; by express or freight, \$1.00 per 10; \$7.50 per 100. Low prices by the thousand.

DEWBERRY, LUCRETIA.

A trailing variety of the blackberry, ripening between the raspberry and the blackberry. Fruit, large, handsome, sweet and luscious.

Price: Each, 15c; per 10, \$1.25, postpaid. By express or freight, \$1.00 per 10; \$7.50 per 100.

"DIAMOND QUALITY"**STRAWBERRY PLANTS**

In setting, trim roots as indicated by line in illustration.

STRAWBERRY PLANTS are a great specialty with us, and our select strains of New Oregon, Gold Dollar, New Acme, Magoon, Clark's Seedling and other Western varieties, many of which were introduced by ourselves, still hold their position as the leading commercial varieties of the Northwest, and are being planted more extensively each season. Thus demonstrating by actual market and growing tests the great superiority of our Western varieties, against the keenest competition from all sections.

Better Strawberries or larger crops are not produced anywhere than right here in the Northwest.

**Make No Mistake—Western Varieties
ARE Best for WESTERN GROWERS**

"Diamond Quality" Strawberry Plants are large, vigorous and healthy. They are heavily rooted and have large, full crowns; have been carefully grown, and are free from disease and pests. We dig as ordered and pack for shipment in ventilated crates of 500 plants each, crowns up. They are grown from our select strains and are always true to name; no substitution is ever allowed without the full knowledge of the purchaser.

CARE FOR AND FEED YOUR PLANTS.

Neglect is the prime factor in strawberry failures, and most strawberry beds suffer from lack of attention and starvation. Proper fertilization and intelligent culture insure enormous crops of finest fruit and freedom from diseases and pests. White grubs, cutworms, crown miners, etc., can all be controlled by preventive measures. Never set strawberries on or near clover sod or hay fields; such ground should

have at least two years cultivation before using for strawberries. Remove the mulch directly after fruiting. This helps to control many evils. For helpful details of care and culture, see our **Strawberry Booklet**, 32 pages, sent free on request.

The strawberries here offered have all stood the market test and you will be safe in selecting any one of them that will suit your conditions and requirements. They are the best varieties obtainable.

Gold Dollar

EXTRA EARLY

No early strawberry has ever been grown that equals our special strain of "Gold Dollars."

Gold Dollar berries are large size, dark red all through and have a fine flavor. Foliage heavy, large and spreading, which protects the blooms from early frosts. Has a perfect bloom, and strong stems that hold the berries up from the ground, which helps to keep color and flavor during the early rainy season. A very heavy cropper. Keeps up in size throughout the season. "Gold Dollar" berries are sold under their own name, having in the short time since introduction created a demand and won a recognition never before accorded a strawberry. They command the highest early prices.

New Oregon

Our "New Oregon," after seven years of active competition, still leads all other main crop berries, and as a general purpose or fancy market berry has no competitor.

The color is a rich dark red, extending to the center; berries very large, averaging 15 to the quart; firm, and of fine even form; flavor is rich, sweet and delicious; as a table or canning variety is unexcelled. The New Oregon is very early and continues in bearing until frost. Plants of the true strain cost a little more than other sorts, as they set fewer runners.

New Acme

For growers who have a distant market, or who require a firmer berry than any before known "New Acme" is specially recommended.

The Acme is a seedling of large size and same general form as the well known "Clark," but of much richer, more brilliant color. The seeds, being very prominent and of a rich, golden yellow, give the berry a strikingly handsome, distinctive appearance. It ripens early and is a heavy cropper, berries remarkably uniform in size and shape; are also very firm, of finest quality, stand handling better and keep longer than any other strawberry. We make this statement only after a thorough test in the open market, extending over four seasons.

Popular and Best Western Sorts

Marshall

One of the best all-round strawberries; very large; dark crimson throughout; fine flavor; a fine market and table berry.

Clark's Seedling

The berry that has made Hood River famous; best shipper; berries large, firm and of delicious flavor; vines bear large crops; is especially adapted to dry soil.



We can supply pot grown Strawberry Plants after August 1st, and our regular field grown stock after Sept. 1st.

STRAWBERRY PLANTS—Continued

Admiral Dewey

Color, beautiful dark red, extending to the center; no white core; shape conical, much like Clark's Seedling; of excellent flavor; a very early, abundant and continuous bearer; might be classed as an ever-bearing.

Wilson

An old standard variety; a heavy bearer of fine, moderate sized berries; sharp acid flavor and the leading sort for canning.

Magoon

Originated near Portland; berry large, fine and excellent; sub-acid flavor; bears heavily throughout the season; especially adapted to Western Oregon and Washington.

Gandy

A profitable market sort; its season is late to very late, being in its prime when most other sorts are gone. The fruit is large, handsome and uniform, and makes an excellent showing on the market.

PRICE LIST OF PLANTS.

	Dozen	100	100	1000
Acme	\$0.50	\$2.25	\$1.50	\$10.00
Admiral Dewey	.30	1.25	.60	4.50
Clark's Seedling	.25	1.00	.60	4.50
Gandy	.30	1.25	.75	5.00
Gold Dollar	.40	1.50	1.00	5.00
Magoon	.25	1.00	.60	4.50
Marshall	.30	1.25	.75	5.00
New Oregon—Improved	.40	1.50	1.00	7.00
Wilson	.25	1.00	.60	4.50

Not less than 500 plants of a kind at 1000 rate. Special prices on 3000 or more.

FREE

ON REQUEST, OUR 32-PAGE BOOK ON STRAWBERRY CULTURE

Complete and up-to-date. Things you should know about Strawberries.

FREE

Reports from Customers

Weiser, Idaho, Feb. 2, 1910.

Gentlemen: Last spring I bought 10,000 New Oregon plants from you. They are a rampant grower. I want to plant quite an area of fruit this spring and will probably order from you, as you have always treated me right. Respectfully,

Stevenson, Wash., Dec. 27, 1909.

Gentlemen: One year ago last spring I purchased five hundred New Oregon Strawberry plants of you. Last summer I sold a little over fifty dollars worth of berries from the plants. Many pound boxes only required 18 berries to the box, some 15, never taking over nine berries for finish per box. Out of 12 crates I did not get quite a pound box of culs. They seem to

be good keepers. I had a few boxes that I overlooked and were in good shape after standing three days.

Cuddeback, Cal., May 31, 1910.

Gentlemen: A few years ago I purchased 500 New Oregon Strawberry plants from you which were such a success that they stirred up the whole neighborhood, and I have been overrun for plants, but as they have very few runners I could not sell any and, in consequence, you may expect a good many orders from this section, as everybody who saw them bear wants some. But say, your Gold Dollars! They could not have a more appropriate name. They surely are IT.

Please reserve about 2000 New Oregon plants and notify me about your earliest and latest dates you can ship them. Yours truly.

DISTANCES RECOMMENDED FOR PLANTING

Apples (Standard)	25 to 40 ft. each way
Pears (Standard)	20 to 35 ft. each way
Quince	15 ft. each way
Peaches	18 to 24 ft. each way
Plums	15 to 20 ft. each way
Cherries	25 to 40 ft. each way
Blackberries	6 ft. x 4 ft.
Raspberries	6 ft. x 3 ft.

Currants	5 ft. x 3 ft.
Gooseberries	5 ft. x 3 ft.
Strawberries (hills)	.36 in. x 18 in.
Strawberries (matted rows)	.48 in. x 12 in.
Grapes	8 x 8 to 10 x 12 ft
Asparagus	4 x 1 ft
Rhubarb	4 x 2 ft

NUMBER OF PLANTS PER ACRE AT VARIOUS DISTANCES.

In planting trees the greater distance should be given in the richer soils.

DISTANCE APART.	Square Method.	Triangular.
1 foot apart each way	43,560	50,300
2 feet apart each way	10,890	12,575
4 feet apart each way	2,722	3,143
6 feet apart each way	1,210	1,397
9 feet apart each way	537	620
10 feet apart each way	435	502

DISTANCE APART.	Square Method.	Triangular.
15 feet apart each way	193	223
16 feet apart each way	170	196
20 feet apart each way	108	125
25 feet apart each way	70	81
30 feet apart each way	48	55
40 feet apart each way	27	33

“Diamond” No. 4 — The Best Fertilizer for Strawberries. Our Fertilizer Book tells why. Ask for a copy. **Sent FREE**

PORTLAND SEED COMPANY'S

Vegetable Plants

We grow large quantities of vegetable plants, and can supply all the kinds listed below, in their proper season, in most any quantity. We have made arrangements this year so that we can supply all vegetable plants in two grades. If you want a quantity of plants write us early.

Transplanted plants are much stronger and better rooted, and are well worth the price, especially in the early part of the season. We can supply most any of the leading sorts. No plants sent C. O. D.

Write for prices in large quantities.

	Postpaid.	By express.
Celery—	Dozen.	100. 1000.
Leading kinds, transplanted	\$0.25	\$0.75 \$6.00
Not transplanted	..	.50 5.00

	Postpaid.	By express.
Tomatoes—	Dozen.	100. 1000.
Leading kinds, transplanted	\$0.30	\$1.00 \$7.00
Not transplanted	..	.75 6.00

Add 40c per 100 for Tomato Plants by mail.

Sweet Potato Plants \$0.30 \$1.00 \$7.00

Add 25c per 100 for above Plants by mail.

Chives (Schnittlauch), per bunch 25c



Hop Vines

English Cluster—The best sort.

Strong roots, postpaid, 5c each; 40c per dozen. By express, 25c per dozen; \$1.50 per 100. Write for prices if wanted by the 1000.

Horse Radish

Postpaid, 5c each; 40c per dozen. By express or freight, 25c per dozen; \$1.50 per 100. Write for prices by the 1000.

Farm Tools, Etc.

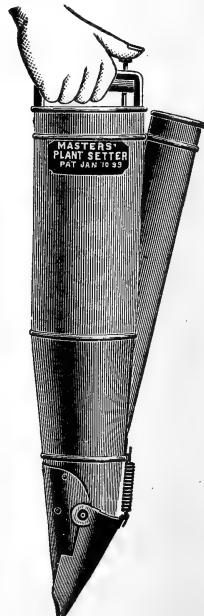
MASTER'S PLANT SETTER.

For planting Cabbage, Tobacco, Celery and small plants of any kind. With this handy little tool you can set, water and fertilize ten thousand plants per day.

You carry the planter in your right hand and drop the plants into it with your left. Each plant is securely set and the work is performed as fast as you walk. The first thing you do after the planter jaws are in the ground is to touch off the water, then drop the plant into the plant tube, give the planter a half-turn to the right, at the same time pressing down with the thumb lever. This will throw plenty of earth into the bottom of the hole on top of the roots and water, which will settle about the roots of the plant as the water soaks away, and at the same time fasten the little roots air-tight at the bottom of the hole, which is the secret of all true plant setting. The upper part of the hole will fill itself by the action of the weather, and the plant will start growing much quicker than if set by hand. THE GROUND SHOULD BE DRY AND WELL HARROWED.

Absolutely sure in its work; no resetting; every plant watered and your field will all grow and come on evenly. By a light pressure of the thumb enough water is released for each plant; two barrels required for an acre in dry weather. You can mix fertilizer with the water, or use liquid manure. This planter is built entirely of sheet metal and steel. The manufacturers of the planter set from 30 to 50 acres of cabbage plants each year. It is simple, durable, practical and sure in its work.

Price, each, \$4.00



A McWhorter Fertilizer Drill puts the Fertilizer just where you want it. No loss, no waste. Spreads 200 pounds to over a ton per acre broadcast or along the row. Adjusted instantly. See page 100.



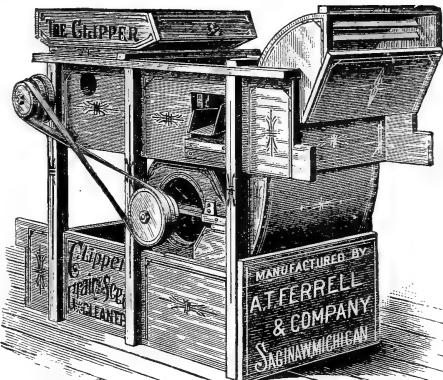
Valuable Books on Farming and Gardening Will Be Found in Our Book List.

THE CLIPPER GRAIN, SEED AND BEAN CLEANER.

This is without doubt the best seed and grain cleaner on the market today. When it comes to doing real nice, clean work, it is far ahead of all the others. The "Clipper" is especially adapted for making effectual separation of wild oats, cheat, cockle and all foreign seed from wheat and oats, plantain from clover, etc., etc., as well as cleaning and grading the perfect seed. Other manufacturers depend entirely upon screens for this work, and with unsatisfactory results. The "Clipper," however, screens all straw and foreign matter from the grain before it enters the air shaft, and the "Vertical Blast" does the rest. The screens are so arranged as to be in plain view, and of easy access to the operator while machine is in operation. Seed dealers everywhere use the "Clipper," because it is the best. We buy these cleaners in carload lots and have both hand and power mills. **Descriptive pamphlet and catalog sent on request.**

Price: No. 1, \$28.00; No. 2, \$37.50

We have four Clipper Cleaners in use in our warehouse, because they are the best cleaners made and the only ones that will clean and grade all kinds of grass, vegetable or farm seeds.



We have supplied "Clipper Cleaners" to the mills, dealers and prominent growers of the Northwest. If you grow grain or seed and do not own a "Clipper," you are losing many times its cost every year. Let us send you our "Clipper" catalog. All sizes and prices.



Broadcast Seed Sowers

Every Farmer Should Have One.

LITTLE GIANT.

The best cheap seeder on the market, made in three sizes.

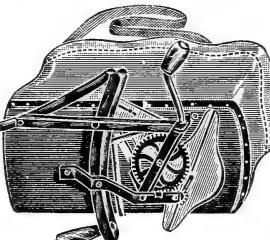
No. 3 Improved.....	\$2.25
No. 3.....	2.00
No. 4.....	1.65

CAHOON.

IMPROVED CAHOON.

The standard broadcast seed sower of the world, made of steel, iron and brass and with ordinary care will last a lifetime. This machine is the most popular. It has a force feed and does excellent work. Instructions with each machine.

Price, \$3.50



LITTLE GIANT.

Potato Planters

PEERLESS. (Fig. 16.)

This is the lightest and best tubular planter made. With this planter one man can plant several times as much ground without getting a lame back as he can plant by hand. The planter locks itself as it is lifted out of the ground, so that the next potato may be dropped in at once, and opens automatically as the top of it is moved forward in walking. (See cut.)

Price, \$1.50

PINGREE OR ACME. (Fig. 14.)

Practically the same as the Peerless without the tube down the handle. You lift the planter up and drop the potato in the lower part. It is light and a very satisfactory planter. (See cut.)

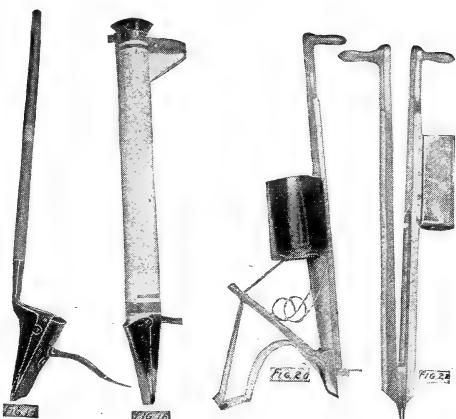
Price, \$1.00

Corn Planters

GORDON AUTOMATIC. (Fig. 20.)

Decidedly the best hand corn planter made, and a very desirable implement for those who have a quantity of corn to plant. It puts the corn (the right number of kernels) exactly where you want it, and at a proper depth. It is light, handy, automatic, easily worked, requiring only one hand (either one), and a most satisfactory tool in every way. See cut.

Price, \$1.50



ACME. (Fig. 22.)

A two-hand planter; light, strong and durable. Especially adapted for planting in heavy, cloddy or stony soils. The seed dropper of the Acme is a straight slide, which vibrates horizontally and will drop seeds ranging from pop corn to large kidney beans. Made with spring, brass cut-off and steel blades. (See cut.)

Price, \$1.00

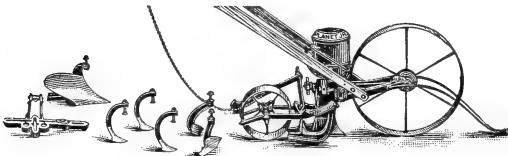
"Planet Jr." Farm and Garden Tools

FOR 40 years Planet Jr. Garden Tools have stood the test of world-wide usage, and are recognized in every known country as the highest type of garden implement. In Europe where labor is cheapest Planet Jrs. are in constant use. How, then, can you afford to be without them where labor is both high and scarce?

We cannot tell you all about Planet Jrs. in this catalog, but will send you the beautiful 58-page Planet Jr. book on request.

Many improvements are added for 1911, including steel frames instead of the malleable or cast ones.

Being general selling agents for Planet Jr. implements our stocks are large and orders will have prompt attention. State your requirements. We will advise the correct tool.



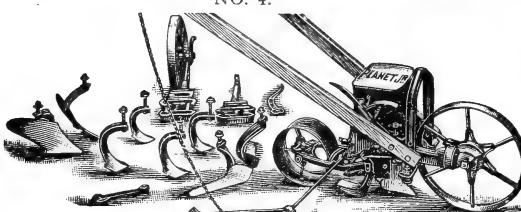
NEW NO. 6.

"GARDENING FOR PROFIT"
376 pages, \$1.75 postpaid

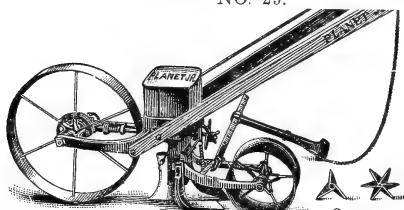
See Book List



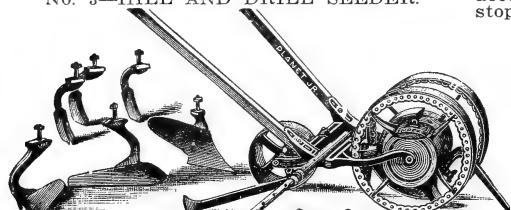
NO. 4.



NO. 25.



NO. 3—HILL AND DRILL SEEDER.



NO. 1—COMBINED DRILL.

No. 6—Planet Jr. Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow, Price, \$14.50; Hill and Drill Seeder only, \$12.00.

This latest Planet Jr. Seeder was under construction for two years, and has been held back until every detail has been made as nearly perfect as possible. The steel carrying wheel is 10½ inches high, with forged steel spokes, making an easy running tool. Handles adjustable. The feed and cut-off are the most accurate ever constructed. The opening plow is of a new shape, leaving the seed in a narrower row than any plow heretofore made. The roller is large and wide, leaving the seed in excellent condition for germination. This drill sows in drills, drops in hills, 4, 6, 8, 12 or 24 inches apart, covers, rolls down and marks the next row, all in one passage. As a wheel hoe the frame is similar to the No. 17 Single Wheel Hoe and equipped with the same tools. The combination is the best and most useful ever offered.

No. 4—Combined Hill and Drill Seeder, and Wheel Hoe Cultivator and Plow. Price, \$12.00; Drill only, \$10.00.

This admirable tool combines in a single, convenient implement a capital hill dropping seeder, a perfect drill seeder, a single wheel hoe, a cultivator and a plow. It holds two quarts, and will sow in a continuous row, or drop in hills at five different distances. It is thrown out of gear by simply raising the handle. The index is accurate, simple and easily set. The drill is detached and the tool frames substituted by removing but one bolt. It then becomes a single wheel hoe, garden plow or cultivator. It is useful almost every day of the season at every stage of garden work.

A set of three rakes supplied when specially ordered. Price, extra, \$1.00

No. 25—Combined Hill and Drill Seeder and Double Wheel Hoe, Cultivator and Plow. Price, \$14.50.

It practically combines in one tool the No. 4 Drill and No. 12 Double Wheel Hoe. **A combination unequalled.** Any one can see at a glance the great advantage of this machine. See descriptions of No. 4 and No. 12.

No. 3—Hill and Drill Seeder. Price, \$11.50.

Hopper holds three quarts; driving wheel has an accurate index. The flow of seed is started or stopped by a single movement of the forefinger.

No. 1—Combined Drill. Price, \$10.50.

This has long been the most popular combined tool made. From a drill it is changed to its other uses by removing two bolts, when hoes, etc., can be quickly attached.

A pair of five-tooth rakes supplied when specially ordered. Price, extra, \$1.00

No. 2—Drill Seeder. Price, \$8.25.

Very much like No. 1, except that it has no cultivating tools and holds more seed.

PLANET JR. MACHINES—Continued

DOUBLE WHEEL HOES.

The **Planet Jr. Double Wheel Hoes** are the greatest tools in the world for gardeners. They do more work, and do it better and easier than can possibly be done in any other way. They represent the very highest perfection in every detail.

No. 14—Double Wheel Disc Hoe, Cultivator and Plow, complete. See cut, Price, \$9.00.

This new tool, introduced in 1909, is exceptionally fine for peat soil, and equally good for other soils. Discs are adjustable as to depth and throwing dirt to or from plants. Cultivator teeth are constructed along new lines. (See cut.)

These tools are in great demand and we could not secure enough last season. Better order early.

No. 13½—Double Wheel Disc Hoe.

Price, \$6.85.

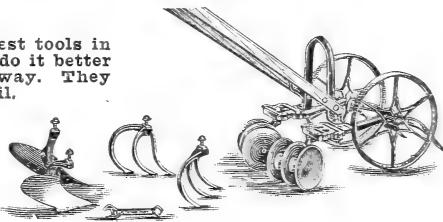
Same as No. 14, with discs only.

No. 11—Double Wheel Hoe. Price, \$10.00.

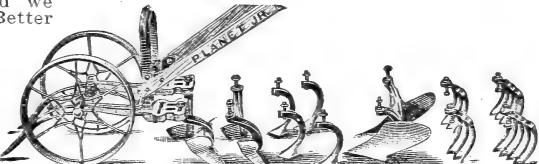
Price includes attachments shown in cut.

No. 12—Double Wheel Hoe. Price, \$7.85.

Like No. 11, except it has fewer tools; 1 set hoes, 1 set cultivators, 1 set plows go with this tool.



No. 14—DOUBLE WHEEL DISC.



No. 11—DOUBLE WHEEL HOE.

No. 13—Double Wheel Hoe. Price, \$5.50.

This is the No. 11 with 1 pair 6-inch hoes only.

Single Wheel Hoes

Single Wheel Hoes are lighter than **Double Wheel Hoes**, but do almost the same variety of work, though in a different way, being used mostly between the rows instead of straddling them. Nos. 16, 17, 17½ and 18 are all the same model; the only difference is in the number of tools sold with each.

No. 38—Single Wheel Disc Hoe, Cultivator and Plow, complete.

(See cut.) Price, \$7.00.

No. 18½—Single Wheel Disc Hoe, like No. 38, except it does not have plow and cultivators.

Price, \$4.75.

No. 18—Single Wheel Hoe. Price, \$4.25.

Same as No. 16, except that it has but 1 pair 6-inch hoes.

No. 17½—Single Wheel Hoe. Price, \$5.25.

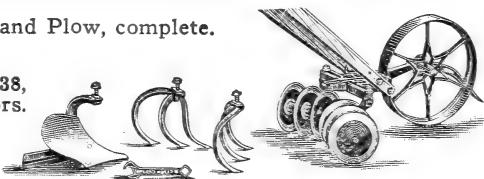
Same as No. 16, except that it has but 1 pair 6-inch hoes and 3 cultivator teeth.

No. 17—Single Wheel Hoe. Price, \$5.75.

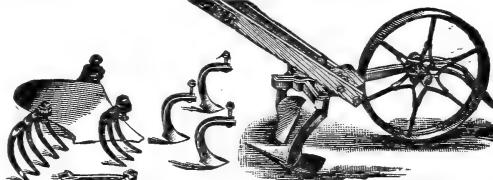
Same as No. 16, except that it does not have the pair of rakes.

No. 16—Single Wheel Hoe. Price, \$6.50.

See cut for attachments.



No. 38—SINGLE WHEEL DISC.



No. 16—SINGLE WHEEL HOE.

Fig. 70—Onion Set Harvester. Price, \$1.20.

A useful attachment for our combined Drills and all our Wheel Hoes. Eight-inch size for onions and onion sets. It leaves the crop in the best condition for easy handling.

Fig. 60—New Hoe with Shield. Pair, \$2.00.

This attachment is very valuable, as you can work close to the young plants. The shield protects them from clods and dirt that would naturally fall back on them. For double wheel hoes, both right and left.



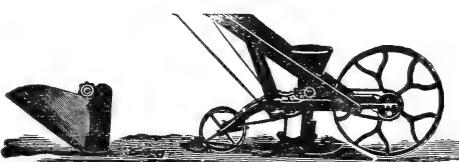
Fig. 70.

Fig. 60.

IRON KING SEED DRILL. The Best Onion Drill.

The Iron King Seed Drill is acknowledged by the majority of the large onion growers of Oregon and Washington to be the most practical of drills for sowing onion seed. It is a well made, durable and easy running machine, accurate and reliable, and with careful use will last a lifetime. It will save the price of the machine in sowing a few acres. If you are growing onions you cannot afford to be without one. The Iron King can also be set to sow anything from turnips to peas.

Price, \$9.25



IRON KING.

**PORTLAND SEED COMPANY'S
PLANET JR. MACHINES—Continued**

HORSE TOOLS.

No. 81—Horse Hoe Cultivator and Furrower

Price \$11.50

This will become our most popular Horse Hoe, as its equipment is ideal for cultivating or hillling any width row up to four feet. Has six 3-inch cultivator teeth, a pair of 6-inch side plows, and a 12-inch furrowing tooth; is compact, strong and, being well balanced, runs steadily. We recommend this Cultivator for general purposes, and specially for hillling, where a one-horse cultivator is needed.

No. 8—Horse Hoe and Cultivator. Price, with attachments, as in cut, \$10.50.

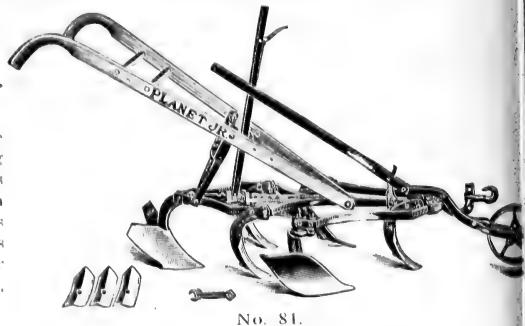
Probably no other cultivating machine is so widely known as the "Planet Jr." Combined Horse Hoe and Cultivator, for it is in use throughout the civilized world. It is so strongly built as to withstand an incredible strain, yet it is light and easy to handle.

Planet Jr. No. 9—Horse Hoe and Cultivator. Price, \$8.75.

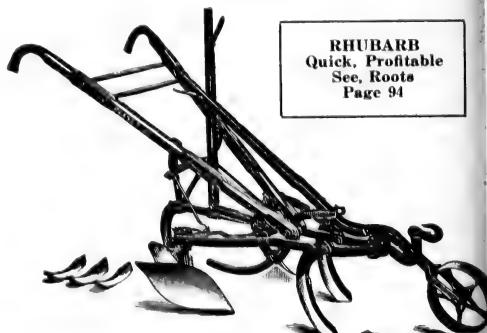
Similar to No. 8, but without lever attachment on the wheel and depth regulator.

Planet Jr. Twelve-Tooth Harrow, Cultivator and Pulverizer. Price, complete, \$10.50; without Pulverizer, \$8.60; without Wheel or Pulverizer, \$7.30.

This tool has rapidly grown in favor with farmers, market gardeners and strawberry growers. It has a high frame and the chisel-shaped teeth **cut an inch wide each**. It may be set with **teeth trailing**. The **foot lever pulverizer** is a capital addition for preparing ground for the seed drill or for plant setting. Hand levers regulate both width and depth while in motion.



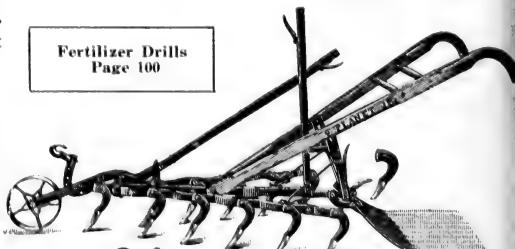
No. 81.



**RHUBARB
Quick, Profitable
See, Roots
Page 94**

PLANET JR. NO. 8 HORSE HOE.

**Fertilizer Drills
Page 100**



TWELVE-TOOTH HARROW, COMPLETE.

ORCHARD CULTIVATORS.

Planet, Jr., Two-Horse Cultivators are different from any others made, and for orchard and general requirements are superior in many ways. They are strong, light, easily handled and do exactly what they are represented to do, and the excellency of material and workmanship guarantees that you will have no failures or disappointments with these splendid tools. The spring-trip standards are especially valuable to orchardists where the ground is new or very rough. We shall be glad to mail you a special "Planet" Catalog, giving detail description and illustrations of all Planet implements.

No. 1. Orchard and Universal Cultivator.

Price, \$45.00

No. 45. Riding Harrow and Cultivator, with extensions.

Price, \$53.00

No. 72. Pivot Wheel Cultivator, complete.

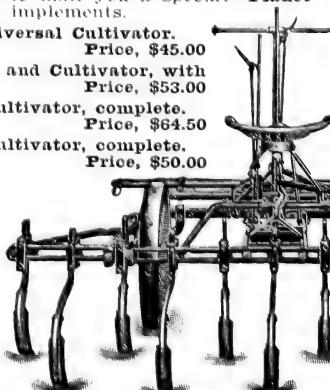
Price, \$64.50

No. 70. Pivot Wheel Cultivator, complete.

Price, \$50.00

It will pay you to keep a few good chickens.

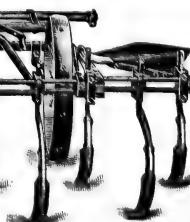
We can furnish thoroughbred stock, and eggs for setting. Ask for our Poultry Catalog.



Planet Jr. Orchard and Pivot Wheel Cultivators are the most modern, and the most practical and serviceable cultivators on the market today. If in need of a cultivator for any purpose, be sure to get a Planet Jr.

Orchards demand bees. They insure pollination.

Ask for Bee Supply Catalog Sent Free.





FERTILIZERS

WE are the largest dealers and carry the most complete stock of Fertilizers and Fertilizing Materials in the Northwest, and having recently installed the most modern machinery for regrinding and mixing our "Diamond Quality" Fertilizers, we can make immediate delivery in any quantity ground to a fineness and blended to a mechanical perfection that makes them superior to all other brands.

"DIAMOND QUALITY" FERTILIZERS are complete fertilizers of the very highest grade and no inferior ingredients or cheap fillers are used in their preparation. All material used being of the highest grade and concentration, each package is marked plainly, showing the percentage of available plant food, as required by law.

Special Fertilizer Booklet giving complete analysis and price of the different fertilizers which we can supply, together with full information for their application, will be sent on request. This book is of great value to all interested in fertilizers.

The best results are obtained by applying fertilizers in the late fall or early spring. The average amount used is 600 to 1,000 pounds per acre, but two or three times this amount is often used to advantage by market gardeners. Complete instructions will be found in our Fertilizer Booklet, sent free. If there is any special information you require, write us; your inquiries will have our prompt and careful attention and our experience may help you.

No. 1—General Fertilizer

An all-around fertilizer, better than "Standard," which can be used on any crop, but is especially adapted for grain and general farm crops. Analysis: Nitrogen, 2 to 2½ per cent; phosphoric acid, 6 to 6½ per cent; potash, 6 per cent.

Price: 10 lbs., 40c.; 100 lbs., \$1.90; 500 lbs., \$9.50; 1,000 lbs., \$18.50; per ton, \$36.00.

No. 4—Fruit and Strawberry

This fertilizer is also used for blackberries, raspberries, etc. We sell large quantities for growing the famous Hood River strawberries. Analysis: Nitrogen, 2 to 3 per cent; phosphoric acid, 7 to 8 per cent; potash, 9 to 10 per cent.

Price: 10 lbs., 40c.; 100 lbs., \$2.25;

500 lbs., \$10.00; 1,000 lbs., \$19.50; ton, \$38.00.

No. 5—Odorless Lawn Dressing

This fertilizer supplies a long-felt need, and produces a dark green lawn; can be used at the time the seed is planted and later as a top dressing. One hundred pounds is sufficient for an ordinary city lot, and is far more effective and less objectionable than stable manure. Remember, it contains no weed seeds. When used as a top dressing it is best to make several small applications about two weeks apart.

Price: 10 lbs., 50c.;

25 lbs., 80c.; 50-lb. sack, \$1.25; 100 lbs., \$2.25; 500 lbs., \$10.75.

No. 10—Special Hop and Onion

A fertilizer made especially for hops; very rich in potash, and when used freely in hop yards has been known to double the yield and improve the quality of the hops. Be sure that you get "Diamond Brand." Analysis: Nitrogen, 2½ to 3 per cent; phosphoric acid, 6 to 7 per cent; potash, 12 per cent.

Price: 100 lbs., \$2.25; 500 lbs., \$10.75; 1,000 lbs., \$21.00; ton, \$40.00.

Nitrate of Soda

For immediate results Nitrate of Soda is the very best for stimulating and forcing the growth of plants or any other crop.

Per lb., 5c.; 100 lbs., \$3.25; 1,000 lbs., \$30.00.

High Grade Fertilizers Cheapest

A 100-pound bag of high grade commercial fertilizer will contain more soluble and available plant food than 4,000 pounds (two tons) of stable manure of average quality. How much easier and cleaner to handle one 100-pound bag than tons of manure, and there are no weed seeds to worry over.

NOTE.—As Fertilizers are sold on a small margin, prices are subject to market changes, but you will always get full value for your money.

Land Plaster, or Gypsum

Made from pure gypsum, absolutely free from clay or other foreign matter. This is especially valuable for clover crops.

10 lbs., 25c.; 100 lb. sack, 75c..

Utah: ½ ton, \$6.50; ton, \$12

Superphosphate

This is a concentrated form of phosphoric acid, and it is actually the cheapest form in which to buy phosphoric acid. Our present stock contains 17 per cent available phosphoric acid.

Price: Per lb., 5c.; 100 lbs., \$1.60; ton, \$29.00.

Ground Bone — Pure

Pure Ground Bone, fine ground, is one of the best fertilizers. This is the only grade of Ground Bone we are now manufacturing, and is all pure bone, reduced by improved machinery to an even fineness—nothing is added, and is free from any adulterant. This is a very valuable enricher of the soil, and one of the most economical at present prices.

Price: 5 lbs., 25c.; 10 lbs., 35c.; 100 lbs., \$1.75; ton, \$33.00.

Blood Meal

Pure Blood, cooked, dried and finely ground, a quick-acting fertilizer, analyzing very high in effective nitrogen; in fact, the nitrogen of Dried Blood is one of the most effective forms of organic nitrogen known. This also carries some phosphorous; is a strong fertilizer, a little going a long way.

Price: 5 lbs., 30c.; 10 lbs., 50c.; 100-lb. sack, \$3.50.

Fish Guano

Fish scraps, cooked, dried and ground, is a strong fertilizer, high in nitrogen, carrying considerable phosphorous and used largely by vegetable growers. We do not recommend this for lawns or city use, as odor is objectionable and particles picked up by dogs have been known to poison them.

Price: 100 lbs., \$2.25; ton, \$43.00.

Animal Fertilizer

Ground meat scraps, desiccated in a vacuum; is very rich in phosphoric acid and nitrogen.

Price: \$1.75 per 100-lb. sack; \$32.00 per ton.

FERTILIZERS—Continued

POTASH

One of the most important fertilizing elements. We are general agents for the German Kali Works, whose products are known and used throughout the entire world.

Their valuable literature will be sent free on application. If you are not informed on this subject, it will pay you to give it your immediate attention.

We receive direct importations and offer the following in original packages, or can supply any quantity, large or small, at lowest price.

MURIATE OF POTASH. Price: Lb., 5c.; 100 lbs., \$3.25; sack, 224 lbs., \$6.50; ton, \$54.00.

SULPHATE OF POTASH. Price: Lb., 5c.; 100 lbs., \$3.50; sack, 224 lbs., \$7.25; ton, \$60.00.

KAINIT. Price: Lb., 3c.; 100 lbs., \$1.50; sack, 224 lbs., \$2.50; ton, \$20.00.

Nitro-Culture

 Be sure to state the kind of seed you intend to inoculate.

Of the three essential plant foods, Nitrogen, Phosphoric Acid and Potash, Nitrogen is the most important and expensive. The air is four-fifths Nitrogen and the soil is full of air, but plants cannot extract Nitrogen from the air, except by a wonderful process of nature, through germ action, by which this vast store of Nitrogen is made directly available at a cost not to exceed \$1.50 per acre. This wonderful discovery was made, and since developed, by the U. S. Government Department of Agriculture, and is called Nitro-Culture, after the little germs that produce the Nitrogen gathering nodules on the roots of leguminous plants. See illustration.

These germ cultures are put up in small, dry packets. You simply add water and sprinkle on the seeds. It will increase your crop two to ten times. Write for pamphlet.

 **NITRO-CULTURE** must be sprinkled on the seeds before planting, and can only be supplied for the following: Alfalfa, White, Red and Alsike Clovers, Beans, Vetches, Cow Peas, Field and Garden Peas, and Flowering Sweet Peas. As yet no cultures have been discovered for any other than leguminous plants.

Prices: Trial pkg., $\frac{1}{2}$ to $\frac{1}{4}$ acre, 50c.; acre pks., \$1.50; 5-acre pks., \$5.00. Special garden size for Sweet Peas, Garden Peas and Beans, 25c.

Our Fertilizers contain generous supplies of vital plant food. Being highly concentrated and readily available, small quantities only are needed for the production of the finest crops. **THEY ARE QUICK IN ACTION, RELIABLE AND ECONOMICAL.**

McWhorter Fertilizer Drill No. 21

For the Practical, Superior Distribution of Commercial Fertilizers—Simple in Construction, Easily Understood and Effective in Operation.

This machine needs no defense or praise from us. Wherever known, it is pronounced the best. Has a force feed without friction; does not require that degree of dryness in the fertilizer necessary to all other distributors we have seen; is so arranged that the fertilizer can be applied in any manner that may be desired, as the operator has perfect control of the spread and division of same, any change for that purpose requiring only a few seconds.

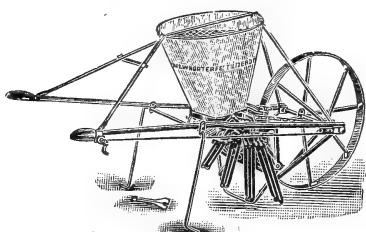
It will distribute the fertilizer in one or more furrows beside the growing crop or broadcast to any extent up to a uniform spread of over two feet, without removing or adding any part or loosening a bolt, and in any quantity from a few pounds up to forty or more pounds to the hundred yards of row, or from 200 pounds to over a ton to the acre. We call special attention to this ability to **spread** the fertilizer with this machine. It is a highly important feature and will be appreciated by the thinking farmer. A decidedly wrong thing is to apply the strong fertilizers of the present day without sufficiently spreading and incorporating them with the soil. **Shipping weight, 61 pounds.**

Price, complete, \$13.00.

NITRO-CULTURE IS A PRACTICAL SUCCESS, AND IS ENDORSED BY THE UNITED STATES GOVERNMENT.



ROOTS SHOWING EFFECT OF INOCULATION WITH NITRO-CULTURE.
(Taken from a photograph by the United States Department of Agriculture.)



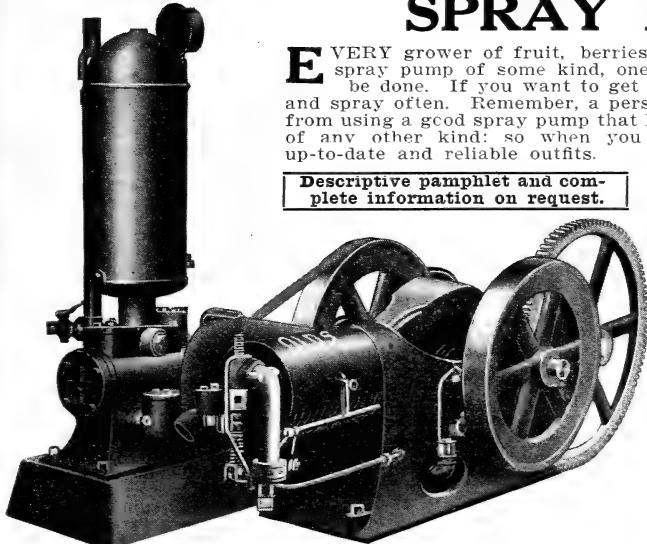
McWHORTER'S FERTILIZER DRILL.

SPRAY PUMPS

EVERY grower of fruit, berries, or flowers should have a good spray pump of some kind, one suited to the work that is to be done. If you want to get the best results, you must spray and spray often. Remember, a person derives the same satisfaction from using a good spray pump that he does from using a good article of any other kind: so when you buy get one of the following up-to-date and reliable outfits.

Descriptive pamphlet and complete information on request.

Our Power Outfit



VICE-ADMIRAL SPRAY PUMP ATTACHED TO OUR GAS ENGINE.

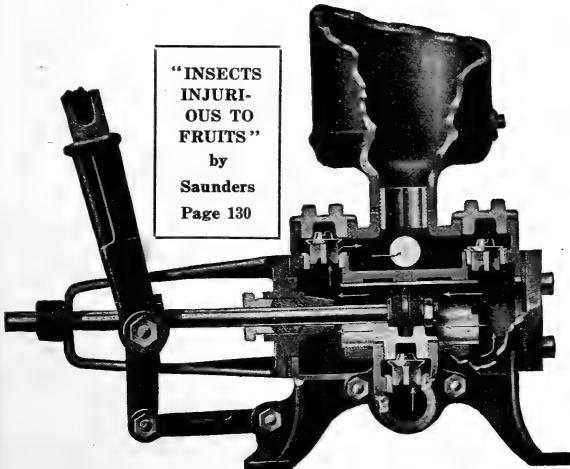
Recognizing the great demand for a spraying outfit that is right and will meet the requirements of the farmers and orchardists, we have for some time past had practical men in the field thoroughly investigating the conditions under which these engines must run and the equipment which would be best for this purpose.

As a result of this work, we have gone at the question from the user's standpoint. We have secured a line of apparatus which we think, on careful examination, you will agree is the best thing for the purpose to be found on the American market today.

The Portland Seed Co.'s Spray Outfit is composed of an air-cooled "Olds" Horizontal, Four-Cycle Gasoline Engine, directly connected by means of gears to a Gould's Vice-Admiral Spray Pump. This engine, instead of having the old style, heavy, cumbersome, water-cooled cylinder, is equipped with an up-to-date air-cooled cylinder. The cylinder is cooled by means of a fan driven by a belt from the fly-wheel. This fan drives a strong air-blast around the cylinder and through the numerous flanges, which are cast on the outside of the cylinder. The air is compelled to circulate round the cylinder by means of a sheet metal jacket surrounding nearly two-thirds of the entire cylinder.

Outfit complete, comprising 2½ to 3 H. P. engine, connected to Gould's Vice-Admiral Pump, mounted on base, with relief valve and pressure gauge, two 25-foot leads of best spray hose; two 8-foot bamboo extension rods, with nozzle and cutoff; weight 700 pounds	\$205.00
Same outfit, with 4 leads, best spray hose, 4 extension rods and nozzles	218.00
Engine only, with gearing	160.00
Pump only	30.00
Best spray hose, per foot . . . . .	.18
Extension rods, 8-foot, complete with cut-off	1.50
Spray nozzles . . . . .	.75c. to 2.00

Note.—Can furnish any special outfit desired, one or more leads of hose, etc. State your wants. Prices on request.



SECTIONAL VIEW OF GOULD'S "ADMIRAL."

SPECIAL.

We assemble outfits in any manner desired by customer, and will suggest the right attachments for special purposes.

Engine can be detached from pump in 5 minutes —has 6-inch drive pulley, which adapts it to every need.

DIAMOND LIME AND SULPHUR SOLUTION

Prepared under steam pressure, remains in solution indefinitely, retaining the valuable sulphides that destroy scale and funguses.

WILL NOT GRANULATE

You cannot afford to risk a cheap untried, open kettle solution when the price of Diamond Solution is so low.

\$9.00 Per Barrel

F. O. B. Portland
See Page 107

"Spraying crops"
WEED
Page 130

SPRAY PUMPS—Continued

Gould's Admiral Double Acting Sprayer

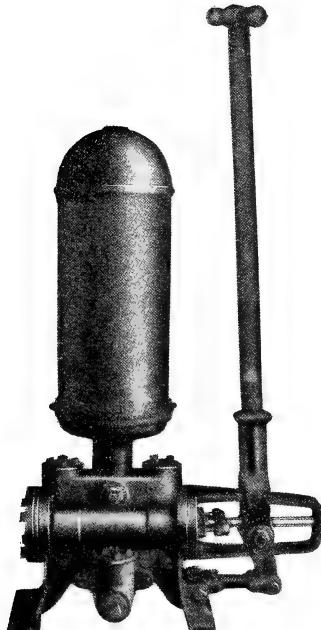


Fig 1508. ADMIRAL.

For Large Orchards, Parks, Groves, Etc.—Very Powerful.

The "Admiral" is double acting and produces a steady stream at the nozzle; is built for continuous hard work and high pressure. Especially designed for large orchards, and will meet every requirement. The brass cylinder lining is of heavy seamless tubing, with a cast bronze cylinder head, and can be easily removed, as shown in the engraving. This is an important feature, as the gritty nature of many of the spray mixtures has a tendency to cut the cylinder lining, and when it is badly worn it can be replaced at small cost. The valves are all brass, and each one in a separate valve box. They are easily reached by removing the bronze valve box corners. The brass piston rod is outside guided, making a perfectly straight thrust through the stuffing box, which is outside packed.

The removable malleable iron lever is long and powerful, and with the large air chamber a high pressure can be easily maintained. Suction can be taken from either side of the pump, and there are two discharge openings fitted for $\frac{1}{2}$ -inch hose. When ordered without hose or nozzle, both discharges have half couplings for $\frac{1}{2}$ -inch hose and a brass strainer.

This Sprayer is of sufficient capacity to supply, if necessary, four leads of hose, or two leads, each with two, three or four nozzles, and will be found fully as serviceable as a power sprayer for orchards not large enough to warrant the purchase of a power outfit.

This same pump fitted with a pitman in place of lever for connection to gasoline engine.

Outfit A.—Pump only, with strainer and suction hose coupling \$30.00

Outfit B.—Pump with 8 feet suction hose and strainer... 32.75

Outfit C.—Pump with 8 feet suction hose, two 25-foot leads best $\frac{1}{2}$ -inch hose, two 8-foot bamboo extensions, with Globe valves and nozzles... 40.00

Admiral Pump, with **3-inch cylinder** furnished on any of above outfits for \$5.00 extra.

For pressure gauge, add \$1.50.

We recommend the use of a pressure gauge on all large pumps, as it accurately tells the force of spray when delivered.

Monarch Two-Cylinder Spray Pump

Fig. 1506, **Monarch**.—This pump has many advantages, and we believe it is the best of the large pumps. The main advantages are: First, the long lever, which can be shifted to pull or push, or to lift or drop, and can be changed by the operator any time he desires a relief; second, pump stands outside of the barrel, and all parts can be easily looked after; third, cylinders are perpendicular, and any grit will not lie against the plunger to wear it or the packing out, as is the case with the horizontal cylinders; fourth, there are no valves in the plungers; the packing is on the outside, and can be tightened any time, without taking anything to pieces; fifth, the four brass valves (each one by itself and under a separate cap), can be reached by merely unscrewing the cap, and without disturbing the rest of the pump.

Outfit A, pump only, including strainer and hose connection, \$24.25.

Outfit B, coupled with 6 feet $\frac{3}{4}$ -inch suction hose, \$26.00

Outfit C, pump, suction hose, 25 feet best $\frac{1}{2}$ -inch spray hose, 8-foot bamboo extension, Globe valve and nozzle, \$33.00.

For pressure gauge, add \$1.50.

SPREADS AND PENETRATES.

An inexperienced or careless man can do a thorough job with **Scalecide** where he would fail to get a good distribution with Lime and Sulphur. Page 107.

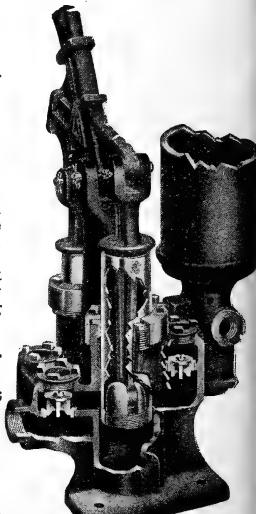


Fig. 1506. MONARCH.

Planet Jr. Special Orchard Cultivators Are Strong, Light, Easy Running, Durable, Adapted to Every Need.

Page 98.

Gould's Pomona

Our Leading Barrel Pump.

Fig 1100.—"Pomona" Spray Pump has won for itself an enviable reputation. We unhesitatingly offer it as the best orchard spray pump for mounting in a barrel. It has great power and capacity. Briefly stated, other points of superiority are: No leather packings, consequently no hardened and useless valves. All working parts bronze, including plunger, gland, valves, valve seats, etc. Plunger is outside packed. Valves are easily accessible. Air chamber is very large and of steel, free from imperfections of cast iron. Lever long and powerful, with adjustable stroke, three, four or five inches. The agitator, as shown in the cut, is operated by the stroke of the handle, so whenever any liquid is pumped it is thoroughly agitated. Pump is held securely by small anchor located at bottom of barrel, and by adjustable clamp plate at the top. New plate admits insertion or withdrawal from barrel without removing the agitator.

Outfit A.—Pump only \$15.00

Outfit B.—Pump with 12½ feet ½-inch best 5-ply spray hose, one Vermorel nozzle, one 8-foot bamboo extension, with cut-off, all complete 19.25



POMONA

Fig. 1100.

Outfit C.—Same as Outfit B, except we furnish a good hard-wood barrel and mount the outfit..... \$21.75

Outfit D.—This is our regular Pomona outfit, the best barrel pump outfit that can be bought. It consists of one No. 1100 pump with two 12½-foot leads of best 5-ply spray hose, two Vermorel or Seneca nozzles, two 8-foot bamboo extensions, with cut-off; all in working order and mounted in barrel 25.00

Fruitall

Fig. 1188.—"Fruitall" Spray Pump is made on the same general lines as our famous "Pomona." It is, however, made lighter and of smaller capacity. All working parts, including plunger, gland, valves, valve seats and strainer are made of brass. Pump is held in barrel by anchor at bottom and adjustable clamp at top, fitting over end of stave. Not made for side of barrel.

Outfit A.—Pump only \$11.00

Outfit B.—Pump with 12½ feet 5-ply spray hose and one Vermorel nozzle, all complete.. 14.00

Note.—Extra 5-ply hose at 13½ c. per foot.



FRUITALL

Fig. 1188.

Gould's Standard Sprayer

Powerful, Large Capacity, Durable.

The "Standard" Sprayer is made with a 2½-inch cylinder. The cylinder is brass-lined, the plunger brass-encased and the valves are brass, making all working parts proof against the spraying mixtures. The plunger is easily repacked without taking the sprayer to pieces, and is unusually large, known as a "differential" plunger, which produces a continuous stream of liquid from the nozzle, similar to the action of a double-acting pump. The large standard provides an ample air chamber. The base is made so as to fit either the end or side of a barrel.

Outfit A.—Pump and strainer only..... \$ 7.50

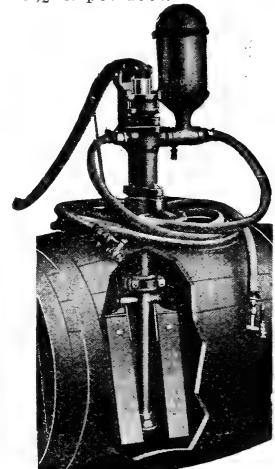
Outfit B.—Pump with agitator and suction pipe..... 9.00

Outfit C.—Same as B, with 1 12½-foot lead of hose and nozzle 12.00

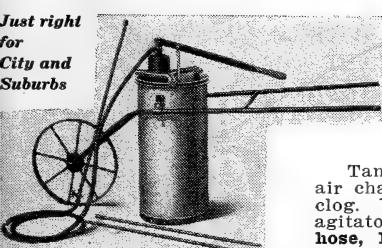
Outfit D.—Same as C, with 2 12½-foot leads of hose and nozzle 15.75

Outfit E.—Same as D, with 2 bamboo extensions and globe valves 18.50

We supply a barrel and mount sprayer for \$1.75 extra.



Just right
for
City and
Suburbs



"Ideal" Spraying Outfit

The "IDEAL" has been designed for small growers, city and suburban homes, and for all purposes where nothing as large as a barrel or power outfit is needed.

IS LIGHT, COMPACT, EASY TO OPERATE.

Tank holds 15 gallons; will not slop or spill. Pump has large air chamber. Bronze ball valves; valves are removable, cannot clog. Well made; gives a pressure of 150 pounds; has mechanical agitator and strainer for suction. Outfit complete, 10 feet ¾-inch hose, 10-foot extension in three pieces, one T-handle shut-off, one "Ideal" nozzle; shipping weight, crated, 60 pounds. Price, \$20.00.

PORTLAND SEED COMPANY'S

SPRAY PUMPS—Continued

PREMIER BUCKET PUMP.

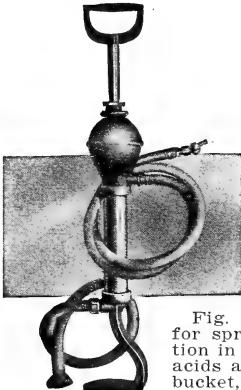


FIG. 561½.

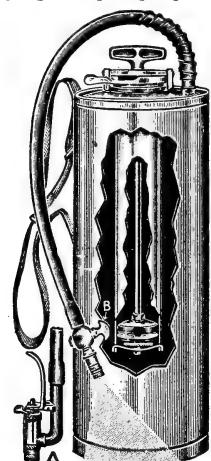
PORTLAND SEED CO.'S BUCKET PUMP.

This little pump is very convenient for all sorts of small work. Has brass cylinder and valves, two nozzles, for fine or coarse work. The best low-priced pump on the market.

Price, \$2.75

BRANDT SPRAYER.

The new Brandt is the latest hand pressure sprayer, and possesses many advantages, chief of which is the method of maintaining the pressure by operating the pump while directing the spray; no stopping to "pump up."



PATENTED.

AUTO-SPRAY NO. 1.

BROWN AUTO-SPRAY NO. 1.

The "Auto-Spray," No. 1, works automatically for six to fifteen minutes. Two pumpings will usually discharge the entire contents. Simply fill two-thirds full of solution and pump up air pressure.

No other style of sprayer will do such a variety of work and do it so well. We recommend it for shrubs and vines, greenhouses, poultry houses, hospitals and stables for disinfectants, for sheep and cattle dip and cattle fly oils.

It may be used where any bucket or knapsack sprayer can be used and with much more satisfaction.

Diameter, 7 inches. Height, 2 feet. Capacity, 4 gallons. Weight, empty, 8 lbs. Weight, loaded, 39 lbs. Weight, shipping, 13 lbs.

Price, galvanized, with stopcock, \$5.50

Brass, with stopcock, \$7.50

With the Auto-Pop Nozzle, see cut A, \$1.00 extra

P. S. CO.'S BUCKET PUMP

PORTLAND SEED COMPANY'S HANDY CARTS.

All metal parts malleable steel, strong, light, easy to wheel.

NO. 1 PLATFORM. Best cart for general use. Will carry four large milk cans, sacks of potatoes, wood, barrels—in fact, anything heavy can be easily and quickly handled. Platform 27x30 inches; 36-inch wheel; 2½-inch elliptical tire. Neatly finished and painted. Weight complete, K. D., 85 pounds.

Price, \$8.75

NUMBER 4 BARREL CART.

Will pick up any kind or size of barrel from a lime to large spray barrel, holding it firmly; no attachment necessary on the barrel. Contents can be emptied by simply raising the handles. Has 36-inch wheels, 2½-inch elliptical rims, 7/8-inch steel axle; weighs, K. D., 70 pounds.

Price, \$8.00.

NO. 4 BARREL.

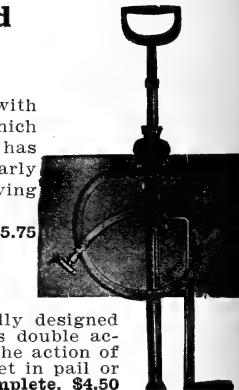
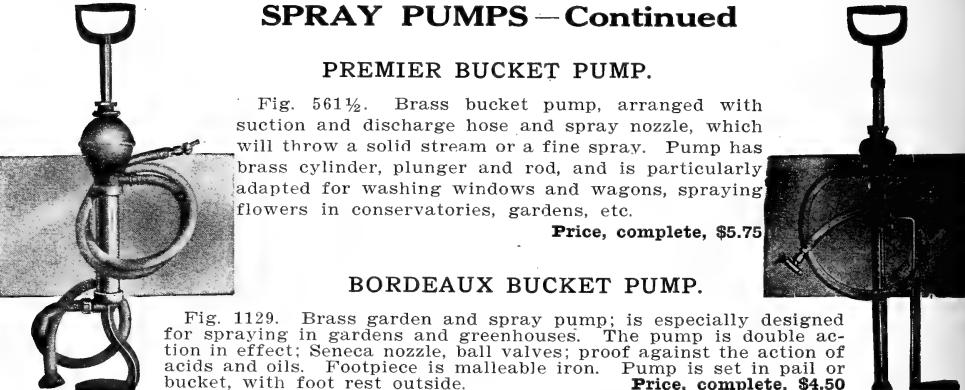
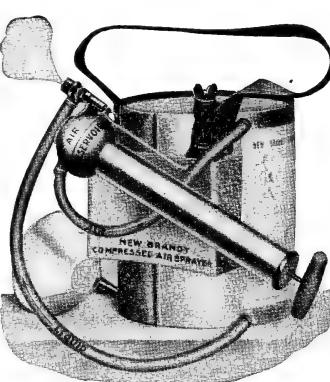


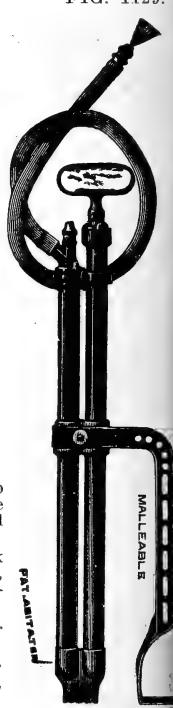
FIG. 1129.

Fig. 1129. Brass garden and spray pump; is especially designed for spraying in gardens and greenhouses. The pump is double action in effect; Seneca nozzle, ball valves; proof against the action of acids and oils. Footpiece is malleable iron. Pump is set in pail or bucket, with foot rest outside.

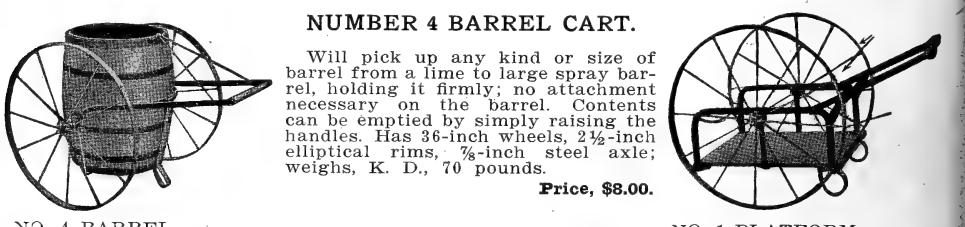
Price, complete, \$4.50



BRANDT SPRAYER.



NO. 1 PLATFORM.



Sprayers and Sprinklers

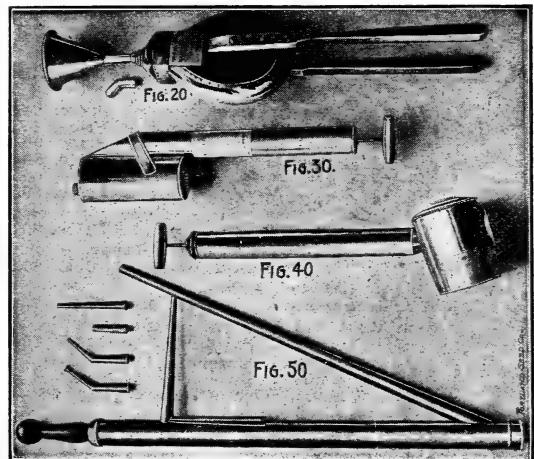
Portland Seed Co.'s Diamond Hand Sprayer

This is the best hand sprayer to date; has a compressed air chamber, which makes the pressure continuous; has brass nozzle adjustable to spray, fine or coarse; brass ball valve; is simple in construction, light and durable; works easy.

Price, \$1.00.



SO-BOS-SO—THE ONLY REAL FLY BOUNCER—PAGE 128



Electric Sprayer, Fig. 40

Specially made for dairy and stockmen, for use in applying fly-killers; strong and durable.

Price, 75c.

Aspinwall Powder Sprayer

Fig. 20. Excellent for blowing powder on vines and bushes; good size and works fine.

Price, \$1.15.

Plant Sprinklers

These little hand sprinklers are used by all florists for spraying pot plants with water or insecticide. They are made of the best quality of rubber, and are durable and lasting. Made in two styles, straight and angle neck. Will spray in any position, and can be quickly filled. (See cut.)

No. 1. 5-oz., Straight neck.....	Each, \$0.60; postpaid, \$0.65
No. 3. 10-oz., Straight neck.....	Each, 1.00; postpaid, 1.10
No. 1. 5-oz., Angle neck	Each, 0.65; postpaid, 0.70
No. 3. 10-oz., Angle neck	Each, 1.10; postpaid, 1.20

Pacific Lawn Sprinklers

Properly constructed, iron stand, upper part all brass. Turns with small force.

PLANT

Price, \$1.25

SPRINKLER.

Price, 35c.

Price, \$1.00.

C. B. G. Cheap, but good. Best cheap sprinkler.
BUSY. A regular water flirter; runs easy.



No florist or gardener can afford to be without this practical device. It is invaluable for applying liquid manure, spraying, tempering water or drawing water out of furnace pits; made of solid brass; will last a lifetime.

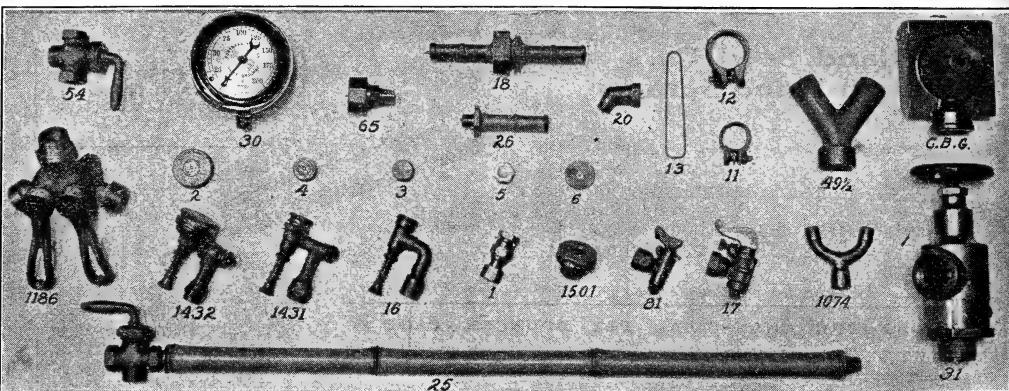
Price, each, \$2.50; postpaid, \$2.75.

FOR FINEST LAWNS—Use "Diamond Mixture."

See Page 40.

Our Spray and Garden Hose is made to our order—is strong and durable. See page 108.





Nozzles, Connections and Hose Supplies

Fig. 1501, **Mistry Jr.** Best hop nozzle; throws a perfect spray; of greater capacity and a great improvement over other nozzles; produces a fog in great volume at a light pressure. **Price, \$1.25; extra disc, Fig. 6, 25c.**

Fig. 1431, **Mistry Nozzle.** The latest thing in spray nozzles. It produces a perfect mist or fog with small pressure. **Price, \$1.00; extra cap, Fig. 4, 15c.**

Fig. 1432, **Large Mistry.** Same as above, but is larger, and has a swivel adjustment, which allows the spray to be thrown at any desired angle. **Price, \$2.00; extra cap, Fig. 2, 30c.**

Fig. 16, **Vermorel Nozzle.** With dredge, affords a conical discharge. Very popular. **Price, 75c.; extra cap, Fig. 3, 20c.**

Two-Discharge Vermorel. Covers twice the surface sprayed by the single nozzle. It is the nozzle for general orchard work. **Price, \$1.75.**

Fig. 81, **Seneca.** Gives a very wide spray; discharge easily graduated. **Price, \$0.75.**

Fig. 1, **Bean's Best.** Best long-distance nozzle. **Price, 75c.; extra cap, Fig. 5, 20c.**

Fig. 17, **Bordeaux.** Use this nozzle for whitewashing. **Price, \$0.75.**

Fig. 51, **Cyclone Nozzle,** with side discharge. **Price, \$0.75.**

Fig. 20, **Nozzle Ell.** **Price, \$0.25.**

Fig. 30, **Pressure Gauge.** **Price, \$1.50.**

Fig. 31, **Relief Valve.** **Price, \$4.00.**

Fig. 26, **Hose Connection.** **Price, \$0.25.**

Fig. 65, **Hose Reducer.** **Price, \$0.30.**

Fig. 1186, **Double Cut-off.** **Price, \$2.00.**

Fig. 49 1/2, **Brass Y, 3/4-inch, for hose coupling.** **Price, \$0.75.**

Fig. 1074, **Brass Y, 1/4-inch, for nozzle only.** **Price, \$0.50.**

Fig. 11-12, **Brass Verdon's Bands, 1/2 or 3/4-inch.** **Postpaid, each, 5c.; doz., \$0.50.**

Fig. 13, **Caldwell Bands.** **For doz., postpaid, 1/2-inch, 25c.; 3/4-in., \$0.30.**

Gem Hose Nozzle. One of the best for yard use. **Price, 45c.; postpaid, \$0.60.**

Fig. 25, **Bamboo Extension.** Has iron pipe inside of bamboo, threaded for nozzles and stopcock. **Price, with stopcock (Fig. 54)—**

Bamboo Iron.	Bamboo Iron.
2 to 4 ft. \$1.25	\$0.90
6 ft. 1.35	1.00
8 ft. 1.50	1.10

Fig. 54. Stopcock. **Price, \$0.60.**

Fig. 18, **Hose Coupling, 2 1/2-inch shank,** for heavy pressure spraying. **For 1/2-inch hose, price, per pair, \$0.65.**

Hose Couplings, for garden hose, 1/2-inch or 3/4-inch, complete. **Price, postpaid, \$0.25.**

Hose Washers, 1/2-inch, rubber. **Doz., \$0.10.**

THE "LENOX" NOZZLE.

For Cold Water, Paint and Whitewashing.

Fig. 1495. Made especially for whitewashing and other methods of painting. It has a large opening inside, with rounding corners, to prevent clogging. The spray opening has steel disc and a lower cap, which can be removed for cleaning at any time. This nozzle is superior to any other on the market for this purpose. **Price, 75c.**



Formaldehyde

A Sure Preventive for Smut in Grain.

This has proved to be much better than vitriol, etc., for treating grain to prevent smut. Also potatoes for blight and scab.

Formaldehyde is a clear chemical, resembling water, but has a peculiar odor. It is sold by the pound (pint). One pound is sufficient to treat 40 to 50 bushels of oats.

The following method is in general use: To treat 20 bushels requires 1/2 pint of Formaldehyde diluted with 5 gals. of water. Spread the oats on a floor and sprinkle with the diluted solution. Then turn them twice with a scoop shovel. Allow to stand for 12 hours. Then spread to dry. Any quantity can be treated by using the same proportions. Oats thus treated will be entirely free from smut.

FORMALDEHYDE FOR POTATO SCAB.

Soak the tubers before cutting for one hour and a half in a solution of 1 lb. (or pint) of Formaldehyde to 30 gallons of water. The potato fungus lives in the soil and on old vines; hence it is wise to keep it off your land by using Formaldehyde for your seed potatoes.

Price, pint bottle, 50c., sent by Freight or Express only, at purchaser's expense. Cannot be mailed.

Sprays, Spray Material and Washes

FOR DESTROYING INSECTS, SCALE, ETC.



Liquid sprays cannot be mailed. Solid sprays, 16c. lb. extra for postage.

Scalecide

The best commercial spray for San Jose scale and all soft-bodied, sucking insects.

Also contains a powerful fungicide, which will control all fungus diseases that are controllable in the dormant season.

This assertion is not based on a single test on ten or a dozen trees, but on actual work in great commercial orchards, where thousands of gallons of spray were used. "Scalecide" is a petroleum oil that mixes at once with cold water in any proportion, and stays mixed. It is not necessary to use an extra tank or barrel, and no hot water should be used. Can be prepared in an instant at the spring or creek nearest to the orchard by simply adding one gallon of "Scalecide" for every fifteen or twenty gallons of water, right into your spray tank. No crude oil is used in the manufacture of "Scalecide," all the light and heavy oils that might prove injurious being removed—but all of the soluble sulphur is retained; this has the insecticidal value. That "Scalecide" is an absolutely unfailing remedy for San Jose Scale is attested to by thousands who have used it. Price per qt., 35c; gal., \$1.00; 5 gals., \$4.00; 10 gals., \$7.50; 50-gal. bbl., \$28.50. Send for free sample and printed matter concerning "Scalecide."

PORTLAND SEED CO.'S

Aphicide

BEST SUMMER SPRAY FOR ROSES

The cleanest, surest, safest spray for aphis, thrip, or any insect life on plants of any kind. You can use it on your house plants. It is odorless, colorless, and will not stain the most delicate fabric, nor injure your plants in any way. Is instantly effective.

Price, quart, 25c.; gallon, 60c.

Diamond

Lime and Sulphur Solution

For San Jose Scale.

Diamond Lime and Sulphur Solution is prepared in pressure tanks by steam, and is always uniform and of the highest efficiency.

You cannot afford to risk a cheap open kettle product. Be safe. Use the best—it's cheapest.

The "Lime and Sulphur Solution" for San Jose scale is endorsed by experiment stations and state horticultural societies of all the fruit-growing states. It is recognized and recommended as the best known preparation for exterminating San Jose scale on all deciduous trees.

Our Lime and Sulphur Solution tests 30 Baume Scale, is made of the purest and best quality of Sublimed Sulphur and of Lime that tests 99.98 per cent pure. It is a clear, deep cherry colored liquid, free from sediment. It is a beautiful product, is very reasonable in price, and its work is perfect. It is all ready to mix just as you get it. Merely add 11 gallons of water with each gallon of the Lime and Sulphur Solution. There is no sediment to clog the sprayers. No boiling to be done, which saves fuel, time, labor and annoyance. It is always alike and uniform in strength and results.

Price, 1 gal., 60c.; 5 gals., \$1.90; 10 gals., \$3.50; 50-gal. bbl., \$9.00.

Arsenate of Lead. The best and latest insecticide for all leaf-eating insects. It will not burn the foliage, and stays on the trees longer than any other spray made.

1-lb. can, 25c.; 2-lb. can, 45c.; 5-lb. can, \$1.00; 10 lbs., \$1.65; 25 lbs., \$3.50; 100-lb. keg, \$11.50.

Bordeaux Mixture. For fungi; in liquid form. Dilute with 49 parts water.

1 qt., 60c.; 1 gal., \$1.50.

Blue Label Slug Destroyer. This is the first powder of its kind that we ever found to positively kill slugs and keep them away from young plants. Full directions on each package. Put up in 25c., 50c. and \$1.00 packages.

25c. package will be sent by mail, postpaid, for 35c.

Bluestone (Vitriol).

Lb., 10c; per 100 lbs., market price

Buhach. Per oz., 10c.; 1/4 lb., 25c., 1b., 75c.

Bug Death. A non-poisonous insect-killing powder that is in high favor among gardeners for cabbage, tomato and cucumber bugs, etc. Use 12 lbs. per acre. Lb., 15c.; 5 lbs., 65c.

Fir Tree Oil Soap. For killing green aphis. 1/2-lb. can, 25c; by mail, 35c; 2 lbs., 75c.

Hammond's Slug Shot. For destroying slugs, cabbage and turnip flea, currant worms, etc. Per lb., postpaid, 35c.; 5-lb. pkg., 50c.

Hammond's Grape Dust. To prevent mildew on roses, grapes and gooseberries.

Per lb., 15c.; postpaid, 35c.; 5-lb. pkg., 50c.

We will gladly mail you our **SPRAY CALENDAR**. It's small, but valuable.

Hellebore. 1/4-lb., 15c.; 1/2-lb., 25c.; 1-lb., 35c.

Kerosene Emulsion. An excellent spray for woolly aphis and clover mite.

Qt., 60c.; 2 qts., \$1.00; 4 qts., \$1.50

Nico-Fume. The best tobacco paper insecticide for fumigating greenhouses.

Per can of 24 sheets, 75c.

Nicoticide. The best fumigator and spray for greenhouse work. Kills aphis, red spider, mealy bug, thrip, etc.

Pint can, \$2.50; qt., \$4.50; gal., \$15.00.

Lemon Oil Insecticide. Soluble in water. A cheap, safe and effectual insecticide for use on plants. Will not injure nor discolor leaves, no odor; a capital wash for dogs, killing all insects and giving the coat a beautiful gloss. Directions on package. Price, 1/2-pt., 25c.; pint, 40c.; quart, 75c.; 1/2-gal., \$1.25; gal., \$2.00.

Rose Leaf. A tobacco spray, for destroying all insects and scale on plants.

Pint, 30c.; quart, 50c.

Quassia Chips. Generally used with Whale Oil Soap for plant lice, etc.

1 lb., 10c.; postpaid, 30c.

Note.—To make standard hop spray, use 1 lb. each Quassia Chips and Whale Oil Soap with 8 gallons water.

Whale Oil Soap. For aphis, plant lice, etc.

1 lb., 10c.; postpaid, 30c.; 100 lbs., \$5.00.

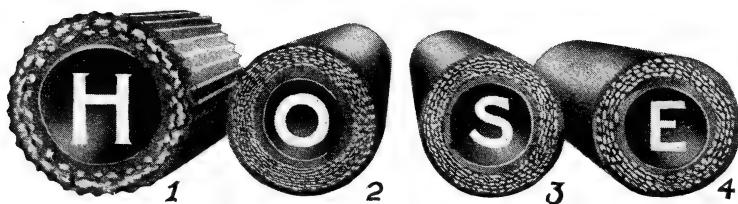
Sulphur, Powder.

Lb., 5c.; 100 lbs., market price.

Tobacco Stems. Lb., 5c.; per 100 lbs., \$2.50.

Tobacco Dust. Lb., 10c.; postpaid, 30c.; 10 lbs., 75c.; 100 lbs., \$5.50.

Florists' and Nurserymen's Supplies



No. 1—Electric
No. 2—Monarch
No. 3—Pomona
No. 4—Hood

For Spray Pumps and Gardens.

THIS season we are offering our customers a very complete and reliable line of spray and garden hose. We buy in very large quantities, direct from the manufacturers, which places us in a position to quote the following very low prices. Most of the brands we offer are manufactured especially for us, and can be obtained nowhere else.

NOTE.—All our hose, excepting spray, is furnished in 50-foot lengths, and comes coupled ready for use. We will cut any of these hose in 25-foot lengths at an additional cost of 25c. for couplings. We will cut $\frac{1}{2}$ -inch Pomona and Monarch Spray Hose in any length desired, at an extra cost of 65c. for spray couplings in less than 50-foot lengths.

MONARCH SPRAY HOSE. The Monarch, a new spray hose, is even a better grade than our well-known "Pomona." It is absolutely the best hose we can buy; the rubber is of exceptionally good quality and is very heavy; and we do not hesitate to recommend it to orchardmen, who must have a very high-grade and strong spray hose.

Monarch Special Spray. $\frac{1}{2}$ -inch only.
Price, per ft., 18c.

POMONA SPRAY HOSE. Our well-known Pomona is the best hose which can be bought at a moderate price. It has stood the test of time and hard usage, and has always proved good. 5 ply.

Price, $\frac{1}{2}$ -in., per ft., 13 $\frac{1}{2}$ c.; $\frac{3}{4}$ -in., per ft., 15c.

SUCTION HOSE. This is an excellent grade of suction hose, and is what we furnish with our regular pump outfit. Price, per ft., $\frac{3}{4}$ -in., 27 $\frac{1}{2}$ c.; 1-in., 30c.; 1 $\frac{1}{4}$ -in., 35c.

AJAX SPRAY HOSE... $\frac{1}{2}$ -inch only.

Price, per ft., 10c.

ELECTRIC GARDEN HOSE. A new process, corrugated rubber hose, that will not kink or break. Especially recommended for florists and gardeners who use hose continuously.

Price, per ft., $\frac{1}{2}$ -in., 17c.; $\frac{3}{4}$ -in., 20c.

"HOOD" GARDEN HOSE. This is an excellent grade of garden hose. It is made with four heavy plies of canvas, and with good, thick inside tubing. We have no hesitancy in recommending this for ordinary garden use.

Price, $\frac{1}{2}$ -in., per ft., 11c.; $\frac{3}{4}$ -in., 13 $\frac{1}{2}$ c.

ST. HELENS GARDEN HOSE. This is a good grade of garden hose of moderate price, and where a hose of medium price is wanted it will give excellent satisfaction.

Price, $\frac{1}{2}$ -in., per ft., 10c.; $\frac{3}{4}$ -in., 11 $\frac{1}{2}$ c.

MASTICA.

For Glazing New or Old Greenhouses.

The use of "Mastica" avoids the necessity of repeatedly reglazing the houses, saving much time and expense. With "Mastica" you can bed in, or use outside with machine. Broken glass can be easily removed and replaced by new without breakage of other glass, which usually occurs with hard putty. One gallon will cover about 290 running feet (one side).

Price, per gallon, \$1.50.

PUTTY BULBS.

Very convenient for applying liquid putty in glazing greenhouses. (See cut.) Price, \$1.00.

POINTS.

Peerless. Best point made. No raising up when driven—no rights, no lefts, no sliding, no trouble to apply; cheap, indestructible. Once used always used. (See cut.) 1000 in box. Price, 75c.

MASTICA GLAZING MACHINE.

To fill the machine, remove the plunger and pour "Mastica" into top of cylinder; replace the plunger and with a gentle pressure of the handle the "Mastica" is forced through the opening at the heel, and is smoothed into perfect condition by the foot passing over it.

(See cut.)

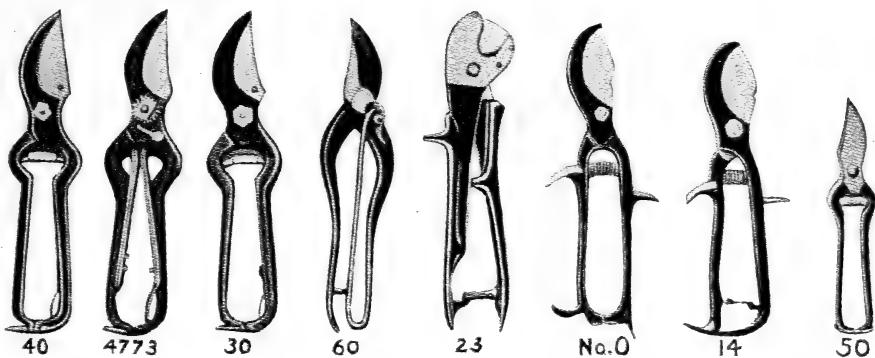
Price, \$1.50



Strong, Healthy Trees, Plants, Roses

We have them in quantity.
Our tree catalog tells all.

Pruning Tools, Knives, Weeders, Etc.



NOTE—Compare numbers on cut to those in descriptions.

No. 4773. 9-inch; full polish, with double brass springs; best American make. \$1.50; postpaid, \$1.70

No. 40. 9-inch; bright finished, polished blade, spiral steel spring; made for hard service. \$1.00; postpaid, \$1.15

No. 41. Same as No. 40, except with ratchet nut. \$1.25; postpaid, \$1.45

No. 30. 7-inch; German make; black finish; polished blade; very good. 75c.; postpaid, 90c.

No. 31. Same as No. 30, only 9-inch ratchet nut; an American make. \$1.00; postpaid, \$1.20

No. 50. 5½-inch, nickel-plated; small, but of best material; fine for ladies. \$1.00; postpaid, \$1.15

No. 51. Same as No. 50, except that it is 6½ inches long. \$1.25; postpaid, \$1.40

No. 23. Levin Pruner, 7-in.; cuts clean; cuts ½-inch. Postpaid 60c

No. 14. Good low-priced tool. 50c; postpaid, 65c

No. 0½. Similar to 14, flat spring. 45c; postpaid, 60c

No. 60. Perfection, 8½-inch; imported French shear; powerful, strong; cuts easily. \$3.00; postpaid, \$3.15

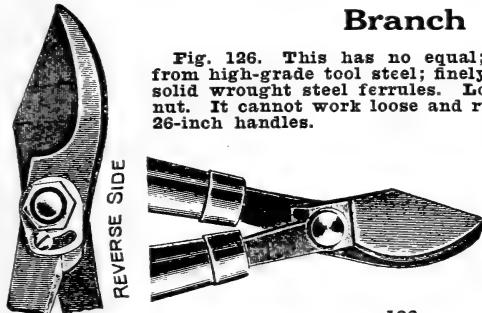
No. 61. 7½-inch; same as above. \$2.75; postpaid, \$2.85

No. 62. 6½-inch; same as 60. \$2.50; postpaid, \$2.60

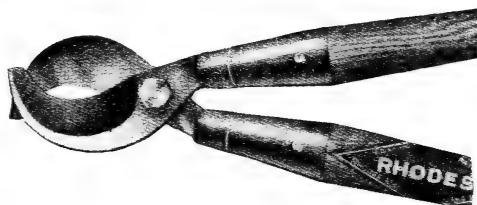
Branch Shears

Fig. 126. This has no equal; is forged from high-grade tool steel; finely tempered, solid wrought steel ferrules. Look at lock nut. It cannot work loose and ruin shears; 26-inch handles. Price \$2.00

"THE PRUNING BOOK,"
BY BAILEY.—A STANDARD AUTHORITY. Page 130



126



Rhodes Double Cut Pruner

Cuts From Both Sides. Does not Bruise the Bark.
The overlapping incurved points prevent the double edges from cutting each other. This is the most powerful and cleanest cutting shear made. Built for hard service. Note the heavy ferrules, and rivet through the shank. They can't work loose. Length, 30 inches. Price, \$2.50.

FIG. 35.

Standard pattern; used for years.

26-inch handle, \$1.00; 41-inch handle, \$1.25.



BRANCH SHEAR—Fig. 35.

Scalecide is an unfailing remedy for all scale and fungus. Will not injure your pump or equipment, easy to apply, spreads and penetrates.

KNIVES

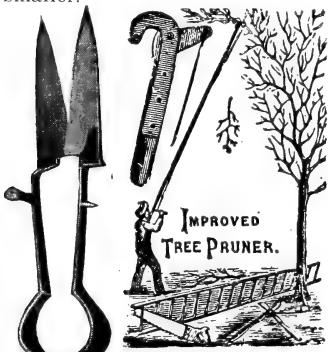
Will send any of the following knives postpaid, at these prices. See numbers on cut.

BUDDING KNIVES.

No. 8. Ebony handle, stationary ivory bark opener. **Price, \$1.00.**
 No. 8 1/2. Same as above, only size larger. **Price, \$1.25.**
 No. 10. Ivory handle, very light and fine. **Price, \$1.00.**
 No. 10 1/2. Same as above, only size larger. **Price, \$1.25.**
 No. 12. Black handle; very light and fine. **Price, 85c.**
 No. 13. Plain wood handle, stationary blade. **Price, 25c.**
 No. 5. Budding and pruning knife combined. **Price, \$1.00.**

GRAFTING KNIVES.

No. 6. Plain wood handle, stationary blade. **Price, 35c.**
 No. 7. Plain wood handle, stationary blade; smaller. **Price, 25c.**



Fine for trimming borders and edges; good make; 6-inch blade. (See cut, Fig. 28.)

Each, 60c.

GRASS HOOKS OR SICKLES.

These are the latest style and shape.

Clark. First-class; detachable blade.

Price, 45c.

Village Blacksmith. Hand-forged.

Price, 45c.

MISCELLANEOUS FLORISTS' AND NURSERYMEN'S SUPPLIES.

PLANT STAKES.

Round cedar, painted green, white tops.
3 ft., 75c. doz.; 3 1/2 ft., 80c.; 4 ft., 85c.; 5 ft., \$1.35; 6 ft., \$2.00.
 Bamboo. 4 ft., 20c. doz.; 5 ft., 25c.; 6 ft., 30c.

PENCILS.

Indelible, nickel tip, for marking labels.
Each, 15c.

OREGON MOSS.

We have this gathered, dried and put up in bales of about 100 lbs. each for florists' and nurserymen's use. Write for price by ton or carload.

Per lb., 5c.; 100 lbs., \$3.00.

TIN FOIL.

Florist. Regular stock.

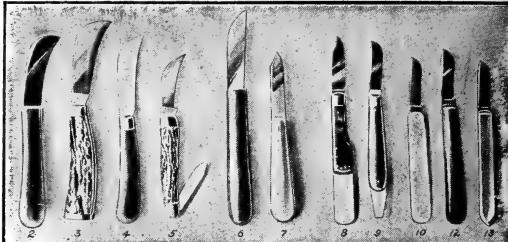
Lb., 20c.; 10 lbs., \$1.50.

WIRE DESIGNS.

Every description. List on request.

FLORISTS

We issue a special list of Florist Supplies of every kind. Our stocks are the largest in the West. Let us figure on your orders.



Note.—See numbers in descriptions.

PRUNING KNIVES.

No. 2. Plain wood handle, stationary blade. **Price, 50c.**
 No. 3. Large horn handle; very strong. **Price, \$1.50.**

No. 4. Polished wood handle. **Price, 85c.**

GRAFTING WAX.

1/4-lb., 10c.; 1/2-lb., 20c.; 1 lb., 35c.; postage, 18c. per lb. extra.

LONG HANDLE TREE PRUNERS.

Indispensable in Pruning Tall Trees. (See cut.)
 6 feet, 75c.; 8 feet, 90c.; 10 feet, \$1.00; 12 feet, \$1.15.
 Cannot go by mail; purchaser will have to pay freight or express charges.

PRUNING SAWS.

Crescent, 12-inch blade.....	65c
Crescent, 14-inch blade.....	75c.
Straight Blade, 16-inch.....	60c.
Straight Blade, 18-inch.....	65c.
Straight Blade, 20-inch.....	70c.

FLOWER SHEARS.

Nickel-plated; cuts and holds the flower from falling until opened again.

Postpaid, \$1.00.

GRAPE SHEARS.

Made like the above. **Postpaid, \$1.25.**

RAFFIA.

For tying plants and buds.

Lb., 25c.; by mail, 50c.

For Colored Raffia, see page 131.

**FOR FINEST RED CLAY FLOWER POTS SEE PAGE 90
FLORISTS WRITE FOR PRICES.**

WIRE HANGING BASKETS.

8 in., 20c.; 10 in., 25c.; 12 in., 30c.; 14 in., 50c.

WOODEN LABELS.

TREE LABELS.

Painted iron wire.

Per 100, 15c.; per 1000, \$1.00.

Unpainted iron wire.

Per 100, 15c.; per 1000, 85c.

Painted copper wire.

Per 100, 20c.; per 1000, \$1.10.

Unpainted copper wire.

Per 100, 20c.; per 1000, \$1.00.

4-inch.

Per 100, 15c.; 1000, 65c.; painted, 1000, 80c.

5-inch.

Per 100, 20c.; 1000, 85c.; painted, 1000, \$1.05.

6-inch.

Per 100, 25c.; 1000, \$1.25; painted, 1000, \$1.40.

8-inch.

Per 100, 30c.; 1000, \$1.50; painted, 1000, \$1.75.

BULBS.

We import annually large quantities of Flowering Bulbs and Roots for Florists' and Gardeners' use. Catalog and prices on request.

Five of the Best Hand Weeders Made.

Length about 10 in.

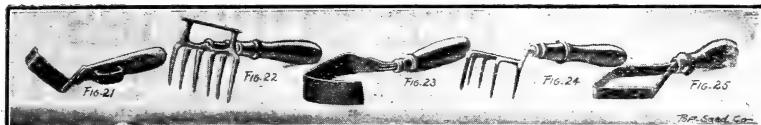


Fig. 21. Lang's.
Fig. 22. Combination,

Postpaid, 25c.
Postpaid, 30c.
Fig. 23. Hazeltine's.

Fig. 24. Excelsior.
Fig. 25. Noyes'.
Postpaid, 30c.

Postpaid, 20c.
Postpaid, 30c.

Garden Trowels

See descriptions of numbers on cuts.

Don't class these tools with the cheap stock offered by the department stores. (See cut.)

No. 211. Six inch; blade and shank of one piece of forged steel. The best tool of its kind in the market 50c.; postpaid, 65c.

No. 313. Six inch; good steel trowel, with malleable iron shank, firmly riveted. 15c.; postpaid, 25c.

No. 214. Six inch; steel trowel, stronger and better finished than the above. 25c.; postpaid, 35c.

No. 212. Six inch; solid steel; a first-class trowel. 35c.; postpaid, 45c.

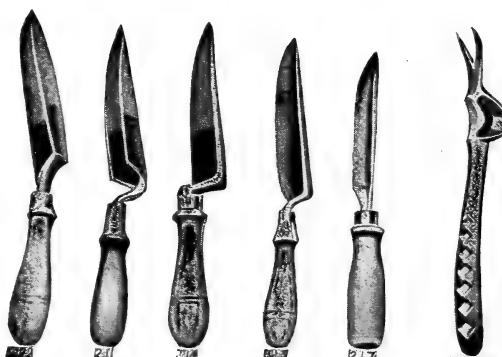
No. 217. Six inch; steel transplanting trowel. 20c.; postpaid, 30c.

No. 217. Eight inch; steel transplanting trowel. 25c.; postpaid, 35c.

No. 216. Ladies' flower trowel.

10c.; postpaid, 20c.

No. 217A. Transplanting hoe trowel, used by gardeners in setting out plants. 50c.; postpaid, 60c.

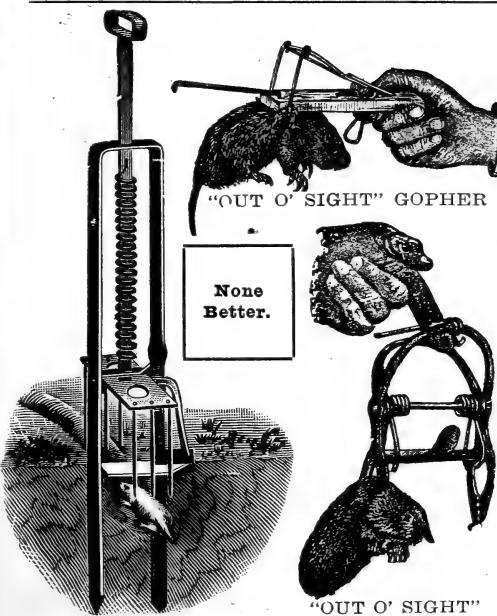


No. 212. No. 211. No. 214. No. 313. No. 217. Fig. 26.

GARDENING FOR PLEASURE

Henderson

\$1.75, postpaid

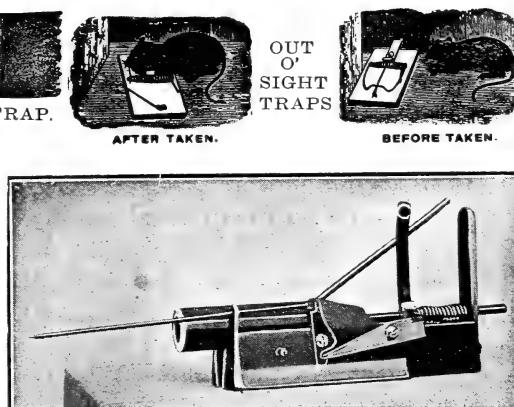


Dandelion Pullers

A most convenient tool for digging these troublesome weeds.

Fig. 26. Vaughan's (see cut). 50c.; postpaid, 60c.

Rat Traps



Portland Seed Co.'s Gopher Gun

Far superior to the old styles; breech loader; place in the runway; perfectly safe. Made for 16-gauge shells; discharged by a push and can be set for hawks, coyotes and coons.

Price, \$1.75

Out O' Sight Traps

Out O' Sight Rat Trap. Postpaid, 25c.
Out O' Sight Mouse Trap. Postpaid, 10c.
Out O' Sight Gopher Trap. Postpaid, 25c.
Out O' Sight Mole Trap. 75c.; postpaid, \$1.10

Reddick Mole Trap

No Mole Can Pass Under It and Live.

These traps are strong and durable and worth the price to anyone with moles. Full directions with each trap. (See cut.)

Price, 75c; cannot mail

BEE SUPPLIES

We are Western Agents for the A. I. Root Co., the largest manufacturers of Bee Supplies in the world, and whose products are the recognized standard of excellence among bee-keepers. We carry immense stocks, and can equip you with everything necessary for the profitable and successful handling of Bees.

If there is anything you need or any special information you require, write us. We have experts in our employ whose knowledge and experience are at your service. Our complete bee supply catalogue will be mailed you on request.

DOVETAILED HIVES AND FIXTURES.

These are now recognized as superior to all other styles in convenience, economy and durability. We offer four grades, Root's, P. S. Co.'s Pine, P. S. Co.'s Cedar, and P. S. Co.'s Western Pine.

Late Improvements and New Devices of the A. I. Root Co.

DANZENBAKER HIVES.—These hives take the same Cover, Bottom Board and Super as the ten-frame dovetailed hive, but the Brood Chamber is shallower, taking ten closed end Brood Frames $7\frac{1}{2}$ inches deep and 17 inches long; each is supported by a pivot in the center of the end bars; a great improvement, as the frames can be reversed and filled out to the ends; it also prevents bees mashing in handling.

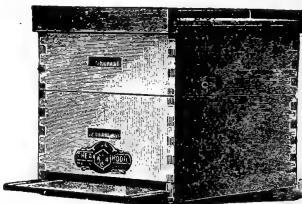
The Section Holder has the same kind of Pivot Support, and a fence separator is used. The Section is a plain $4 \times 5 \times 1\frac{1}{8}$, a size and shape that is very pleasing to the eye, and therefore a good seller. The arrangement in the super is such as to get perfect results in filling out the sections, and in no other hive are they so uniformly and attractively finished. While the Danz. Hive is shallower than the standard Langstroth it has exactly the same Cubic Capacity as the eight-frame Dovetailed Hive, but by having the shallower brood chamber the two inches of honey usually put above the brood in the standard Langstroth frame is carried up into the broader Danz. Super.

For prices and combinations of Danzenbaker Hives see page 113.

THE METAL SPACED FRAME is now offered as being specially adapted to localities where there is much trouble with propolis. They are very accurate, easy to handle, and protect the top bars from splitting at the ends.

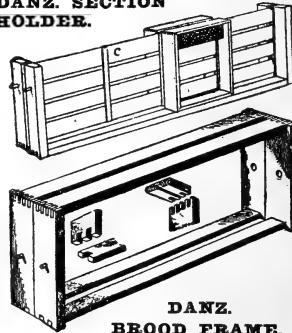
WIRE EXCLUDERS.—Another recent improvement of great value is the use of wire in place of perforated zinc for honey boards, excluders, etc. The bee ways are made of No. 14 galvanized wire and are more perfect than is possible with stamped metal.

EXTRACTORS.—Ball Bearings and Slip Gear devices are furnished on all of our extractors, including the Novice and Cowan Reversible. This slip gear attachment enables the operator to disengage the crank and gear after speeding up, and allows the frames to spin without the drag of the gear. They will run this way for some time, enabling anyone working alone to proceed with uncapping.



Danzenbaker Hive

DANZ. SECTION HOLDER.



DANZ. BROOD FRAME.

IMPROVED SHIPPING CASES have corrugated paper instead of the cleats, making a safer, neater, non-drip package; also the new patent sliding cover that allows the contents to be examined without prying open the top or drawing nails.

Root's Hive Combinations and How to Understand Them.

To accommodate various localities and beekeepers of different preferences, we have a large number of different combinations, and each combination is indicated by a series of letters and figures. A glance at the following table showing the meaning of each letter or figure in alphabetical and numerical order will make all plain.

- A Danzenbaker bottom.
- E Excelsior cover.
- G The gable cover.
- I Super for Ideal plain sections, $3\frac{1}{2} \times 5$.
- M Super 4×5 plain sections for Danz. hive.
- P Super equipped for plain $4\frac{1}{4}$ sections.
- S Super for $4\frac{1}{4}$ beeway sections
- 2 Super with section holders, separators or fences, but no sections or foundation.
- 4 Super with section holders, separators or fences, sections and foundation starters.
- 5 Hive body or brood chamber, with frames and division board, but no starters.
- 6 Hive body or brood chamber with frames, division board, and foundation starters.

8 Indicates hive with 8 brood frames.
10 Indicates hive with 10 brood frames.
When the figures are doubled, it indicates that two of the articles are called for. For instance, 2-2P means two supers with plain section holders and fences.

If you desire a Danz. bottom-board, Excelsior cover, 8-frame dovetailed hive with frames, foundation and super with section holders, $4\frac{1}{4}$ plain sections, fences and foundation, the number would stand thus: AE64P-8.

If you wish two supers, in place of the one you would add another figure 4, and the whole would read for 8-frame hive: AE-644P-8; or if you wanted this same combination without foundation or sections, the designation would be AE522P-8.

Dovetailed Hives and Fixtures—Continued

Price List of Root's Dovetailed Pine Hives—Different Combinations	Each Nailed	K. D. in Flat		Wgt. of 10
		5	10	
HIVES.				
No. 1 (A-E or A-G, 6-4, S or P) 8 frame body and 1 super, all complete with starters	\$2.60	\$11.50	\$22.50	280
No. 1 (A-E or A-G, 6-4, S or P) 10 frame body and 1 super, all complete with starters	2.80	12.50	24.50	320
No. 2 (A-E or A-G, 5-2, S or P) 8 frame body and 1 super, all complete less section and starters	2.30	10.00	19.50	260
No. 2 (A-E or A-G, 5-2, S or P) 10 frame body and 1 super, all complete less sections and starters	2.45	10.75	21.00	300
No. 3 (A-E or A-G, 6-4-4, S or P) 8 frame body and 2 supers, all complete	3.25	14.75	28.85	350
No. 4 (A-E or A-G, 5-2-2, S or P) 8 frame body and 2 supers, all complete, less sections and starters	2.85	12.75	25.00	320
A-E or A-G, 6, 8 frame body only, with frames, division board and starters	1.80	7.85	15.25	195
A-E or A-G, 5, 8 frame body only, with frames, division board and no starters	1.75	7.60	14.75	190
No. 10 (A-E or A-G, 5-5) 8 frame body, two story	2.60	11.50	22.50	320
HIVE BOTTOM.				
A- Danzenbaker bottom-8 . . . . .	.35	1.60	3.00	40
HIVE COVERS.				
E-Exélsior or G-gable cover-8 . . . . .	.45	2.00	3.75	40
HIVE BODIES (Brood Chamber).				
Empty body for 8 frames $9\frac{1}{2}$ inches deep with tin rabbets . . . . .	.70	3.15	6.10	80
5-body-8, with frames and division board	1.05	4.65	9.00	130
6-body-8, with frames, division board and starters	1.10	5.00	9.65	135
SUPERS.				
No. 1 (4 P, S or I) 8, all complete with starters . . . . .	.90	4.10	7.85	75
No. 1 (4 P, S or I) 10, all complete with starters	1.00	4.50	8.40	100
No. 2 (2 P, S or I) 8, all complete less starters . . . . .	.75	3.30	6.30	65
No. 2 (2 P, S or I) 10, all complete, less starters . . . . .	.80	3.50	6.80	80
No. 0 Plain supers, with flat tin; empty . . . . .	.40	1.80	3.50	40
DANZENBAKER HIVES.				
Danz, A E D, 6-4 M-10	2.90	13.50	26.00	330
Danz, A E D, 5-2 M-10	2.65	12.00	23.50	300
Danz, A E D, 5-10	1.85	8.25	16.00	200
SUPERS.				
Danz, 4 M-10 super	1.30	5.65	11.00	120
Danz, 2 M-10 super	1.10	4.90	9.50	100

Note.—D, Danzenbaker cover. M, Danzenbaker super.

P. S. Co.'s Dovetailed Eastern Pine Hives

DESCRIPTIONS AND PRICES.

Order by Number.

Five Hives at same rate as ten.

No. 1 Dovetailed Hive (complete with 1 super) consists of 1 bottom board, 1 body, 1 super, 1 cover, 8 Hoffman brood frames, 1 division board, 2 tightening springs for super, 6 section holders, 6 slotted separators, 24 sections and foundation starters for frames and sections and nails.

Nailed, \$2.35 each; per 10 K. D. flat, \$20.50.

No. 2 Dovetailed Hive is the same as No. 1, less sections and foundation starters.

Nailed, \$2.10 each; per K. D. flat, \$18.00.

No. 3 Dovetailed Hive is the same as No. 1, except that it has two supers instead of one.

Nailed, \$3.05 each; per 10 K. D. flat, \$26.75.

No. 4 Dovetailed Hive is the same as No. 3, less sections and foundation starters.

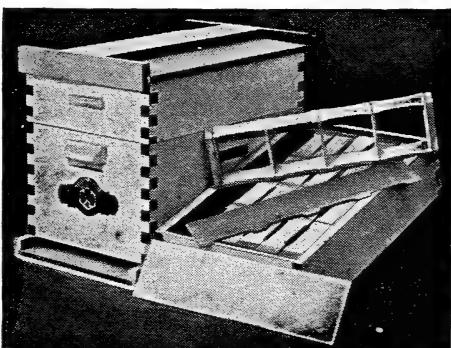
Nailed, \$2.35 each; per 10 K. D. flat, \$22.00.

No. 10 Dovetailed Hive (complete two-story for extracting), consists of 1 bottom board, 2 bodies, 1 cover, 16 Hoffman brood frames, 2 division boards and nails.

Nailed, \$2.50 each; per 10 K. D. flat, \$21.50.

We advise the use of the above combinations, but if you want other sections or separators make note in your order.

This hive is similar to the Root Dovetailed Hive, except that it is made from a little different kind of Eastern Pine, but is first class.



AE64S-8 Hive for $4\frac{1}{4}$ - $4\frac{1}{4}$ - $1\frac{1}{8}$ Sections

P. S. Co.'s Dovetailed Western Pine Hives

This hive is really the best value we have ever had. It is standard size and well and carefully made of first-class lumber. The inside fixtures are just the same as in our regular pine hives, and the sections supplied are of the best grade of white Eastern basswood. For general description of the different numbers, see corresponding numbers and descriptions above.

Each, K. D.—Packed. Weight
Nailed. 5 10
of 10.

No. 1-8	\$2.00	\$9.00	\$17.50	230	No. 2-8	\$1.80	\$8.00	\$15.50	260
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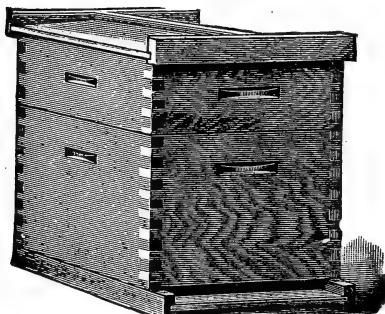
No. 1-8, less Super 1.30	6.00	11.75	205	No. 2-8, less Super 1.25	5.75	11.25	195
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Description for numbers same as above.

Each, K. D.—Packed. Weight
Nailed. 5 10
of 10.

PORTLAND SEED COMPANY'S

Portland Seed Co.'s Western Cedar Hives



These cedar hives are made especially for our Western trade. In construction they are the same as our pine hives, the only difference being that they are made of superior quality of cedar, the best and most lasting wood for our Western climate. The sections and separators used in the supers are the regular No. 1 Eastern stock. Price and quality considered, these hives are the best bargains we have to offer.

PRICES.

	Nailed.	5.	10.	of 10.
No. 1-8	\$2.10	\$9.50	\$18.50	275
No. 2-8	1.90	8.50	16.50	250
No. 10-8	2.45	11.00	21.00	300

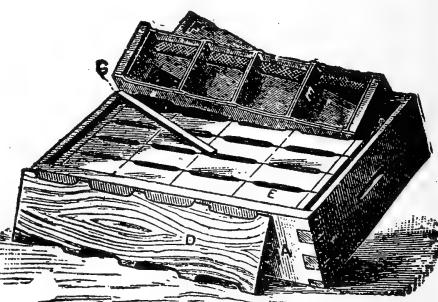
For descriptions of numbers, see those given for our pine hives.

Portland Seed Co.'s Dove-tailed Supers.

Unless otherwise ordered, we always send S supers for the regular stock $4\frac{1}{2} \times 4\frac{1}{2} \times 1\frac{1}{8}$ sections and wood separators. (See cut.)

Nailed P'ck'd in flat. Wt. of
or K. D.

	1	5	10	10
No. 1 Pine	\$0.90	\$3.85	\$7.50	75
No. 1 Western Pine ..	.85	3.60	7.00	75
No. 1 Cedar .....	.90	3.85	7.50	70
No. 2 Pine .....	.70	2.95	5.75	65
No. 2 Western Pine ..	.65	2.75	5.25	65
No. 2 Cedar .....	.70	3.00	5.75	60
No. 8-8 Extract'g Super	.75	3.35	6.50	80
No. 0 Empty, Pine or cedar .....	.35	1.70	3.25	40



Super, Designated as No. 1 or 4-S—Complete.

For description of super number, see corresponding number describing hives.

Hive Fixtures and Miscellaneous Bee Supplies
Section Honey Boxes

Our No. 1 Sections are made of the choicest white basswood lumber, and are all perfect in finish and free from defects.

No. 1 Root's Best White.

Per 100, 70c; 500, \$3.10; 1,000, \$6.00

Portland Seed Co.'s No. 1.

Per 100, 70c; per 500, \$3.00; per 1,000, \$5.75.

No. 2 Root's Second Grade.

Per 100, 65c; 500, \$2.85; 1,000, \$5.50.

Portland Seed Co.'s No. 2.

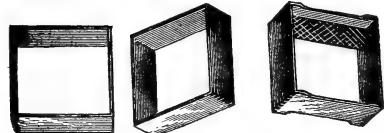
Per 1,000, 5.25.

If ordered by mail, allow 1c each for postage.

Order any of the following sizes wanted. We have $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{8}$, generally used and always sent unless otherwise ordered; $4\frac{1}{4} \times 4\frac{1}{4} \times 7$ to the foot; $4\frac{1}{4} \times 4\frac{1}{4} \times 1$ 15-16; $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{4}$.

The $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{8}$, $3\frac{1}{8} \times 5 \times 1\frac{1}{8}$, and $4 \times 5 \times 1\frac{1}{8}$ Danzebaker having no bee way are 25c per M less.

Don't forget that we have complete Bee Supply Catalogue. Free.



One-Piece Sections.

Section Holders

Root's $1\frac{1}{8} \times 18\frac{1}{8}$ in., slotted.	Each, 3c.; Per 100, \$2.60.
Western, $1\frac{1}{8} \times 18\frac{1}{8}$ in., slotted.	Each, 3c.; per 100, \$2.15.
Root's $1\frac{1}{2} \times 17\frac{1}{2}$ in., plain.	Each, 3c.; per 100, \$2.00.
Danzebaker, reversible.	Each, 4c.; per 100, \$3.00.
Bottoms only— $1\frac{1}{8}$ inches wide, slotted.	Each, 2c.; per 100 \$1.30.

Comb Foundation

Packed in 1, 2, 3 and 5-lb. boxes.

GRADE	Size of Sheets	No. per lb.	In Lots of 1 lb.	10 lbs
Light Standard Brood	$7\frac{3}{4} \times 16\frac{7}{8}$	7	\$.65	\$.61
Extra Light Brood	$7\frac{3}{4} \times 16\frac{7}{8}$	9	.70	.65
Light Section	$3\frac{1}{8} \times 16\frac{1}{2}$	28	.70	.68
Extra Light Section	$3\frac{1}{8} \times 15\frac{1}{2}$	30	.75	.72

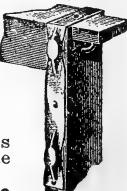
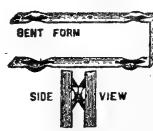
Separators

Slotted Wood, $4\frac{1}{2} \times 18$, Eastern.

Per 10, 15c.; per 100, \$1.00.

Slotted Wood, F. S. Co.'s.

Per 10, 10c.; per 100, 70c.

NEW
METAL
SPACED
HOFFMAN
FRAME

Recommended where there is much propolis. Spacing accurate and frames handle easily.

Price, per 10, 50c; per 100, \$3.90

IMPROVED HOFFMAN FRAMES.

Improved F. F. Root's.	Per 10, 40c.; 100, \$3.50
Western	Per 10, 30c.; 100, 2.85
Half Hoffman, Root's	Per 10, 30c.; 100, 2.60
Danz, Reversible	Per 10, 40c.; 100, 3.25

If you have Beeswax to sell, send it to us.

We will take it in trade, or pay you cash.

Hive Fixtures and Supplies—Continued

HONEY EXTRACTORS.

Ball bearings and slip gear devices are furnished on all of our Extractors.

THE NEW ROOT AUTOMATIC EXTRACTOR. Fitted with a brake that reverses the frames instantly without jar or injury and without stopping. This is an exclusive feature of the Root Automatic. We furnish the 4-frame size.

Price, \$30.00

NO. 5, NOVICE.

Two-frame for any size frame not over 9 1/2 by 18 1/2 inches; weight, 35 pounds.

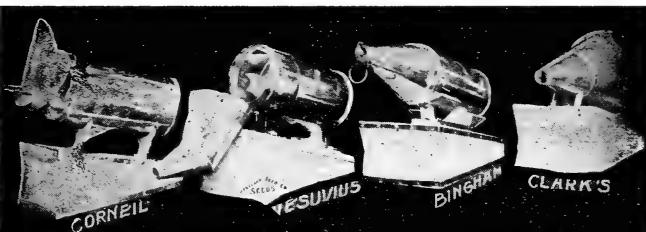
Price, \$10.50

NO. 15, COWAN REVERSIBLE.

Two-frame. Price, \$13.75

FREE.

We will gladly mail our complete illustrated and Descriptive Bee Supply Catalog if you wish it. We have plenty, so don't be backward.



SMOKERS.

(See cut.)

Every owner of a hive of bees should have a smoker. A few blasts of smoke will quiet the bees so that they can be handled with safety. (See cut of the leading kinds.)

Clark's Cold Blast. Probably the most popular smoker in use today.

Price, 60c.; by mail, 75c.

Improved Corneil. Makes a good, strong blast. Standard size, 3 1/4-inch, \$1.00; by mail, \$1.25. Standard Jumbo, 4-inch, \$1.50; by mail, \$1.85. Copper, \$1.50; by mail, \$1.75. Junior, 2 1/2-inch, 85c; by mail, \$1.05.

Vesuvius. A hot-blast, breech-loading smoker. Price, \$1.10; by mail, \$1.35.

Crane. Similar to the Bingham, but somewhat heavier. Price, \$1.35; by mail, \$1.65.

Danz, 20th Century. Combined hot and cold blast. Price, \$1.15 postpaid, \$1.40.

HONEY SHIPPING CASES.

Non-Drip.

12-lb. Shipping Cases, Root's.

Nailed, each, 20c.; flat, 10, \$1.50.

24-lb. Shipping Cases, Root's.

Nailed, each, 30c.; flat, 10, \$2.50.

24-lb. for 3 5/8x5 sections, Root's.

Nailed, each, 30c.; flat, 10, \$2.35.

32-lb. for 1 1/2-inch sections.

Nailed, each, 30c.; flat, 10, \$2.50.

24-lb. for Danzebaker sections.

Nailed, each, 30c.; flat, 10, \$2.35.

FEEDERS.

Gray's. This is designed to be placed tight up against the entrance.

Price, 20c.; by mail, 35c.

Alexander. Latest out. Used under rear end brood chamber. Price, 30c.; by mail, 55c.

Simplicity. Each, 10c.; by mail, 15c.

Miller's. Sets on hive like a super; holds about 25 pounds of syrup.

Nailed up, complete, 35c.; in flat, 30c.

Boardman's. Price, 30c.; without jar, 20c.

Division Board Feeders Each, nailed, 30c.

FOUNDATION FASTENERS.

Parker's. Well worth the price.

Price, 35c.; by mail, 50c.

Daisy Foundation Fastener. Will put starters in better and faster than any machine before introduced.

Price, without lamp, \$1.00; with lamp, \$1.25.

Van Deusen Wax Tube Fastener.

Price, 20c.; by mail, 25c.

WIRE IMBEDDERS.

The Easterday.

Price, by mail, 25c.

Spur Wire Imbedder. Teeth set so as to straddle the wire while imbedding it.

Price, 20c.; by mail, 23c.

WAX EXTRACTORS.

Doolittle Solar Wax Extractor. With this the sun supplies the heat; weight 30 lbs.

Price, \$4.60.

Root's German Wax Extractor.

Price, \$13.00.

Hatch Wax Press.

Price, \$7.35.

Swiss Wax Extractor. Comb is put in wire basket inside of can and set over hot water. Simple and good.

Price, \$3.75; with steam generator, \$4.75.

Root's German Wax Extractor. Price, \$13.00.

Hatch Wax Press. Price, \$7.35.

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Simple and good.

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Crane. Similar to the Bingham, but somewhat heavier. Price, \$1.35; by mail, \$1.65.

Danz, 20th Century. Combined hot and cold blast. Price, \$1.15 postpaid, \$1.40.

Bingham. This is strong, well made. The "Conqueror" and "Doctor" not excelled for use in large aparies.

Each. By mail.

Bingham Conqueror \$1.00 \$1.25

Bingham Little Wonder60 .75

Bingham Doctor 1.25 1.50

Bingham Large85 1.05

Bingham Engine 1.60 1.85

BEE ENTRANCE GUARDS.

Root's or Tinker's. These are to admit workers, but exclude drones.

Price, 10c.; by mail, 15c.

Improved Wire Front. Price, 20c.; by mail, 25c.

ALLEY'S DRONE AND QUEEN TRAP.

A non-swarming device.

Each, 50c.; by mail, 65c.

Improved wire front.

Each, 55c.; by mail, 70c.

HIVE PARTS.

Division boards. Each, 10c.; 10 for 90c.

Follower and wedge Each, 5c.; 10 for 35c.

Tightening spring Each, 1c.; 10 for 8c.

PORTER BEE ESCAPE.

Great labor-saver. Price, 20c.; postpaid. Mounted, each, 40c. (cannot mail).

PORTER HONEY HOUSE ESCAPE.

No extracting room is complete without one or more of them. Each, 25c., postpaid.

Hive Fixtures and Supplies—Continued



BEE BRUSHES.

Davis'. (See cut.) Price, 20c.; by mail, 25c.
Coggshall's. (See cut.) Price, 20c.; by mail, 25c.

Dixie. (See cut.) Price, 20c.; by mail, 25c.

GLOVES, RUBBER.

Ladies. Sizes 7, 8, 9.
 Price, \$1.20; by mail, \$1.30.

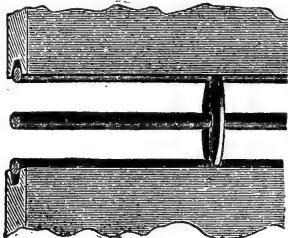
Men's. Sizes 10, 11, 12.
 Price, \$1.25; by mail, \$1.35.

Men's Half Long. Sizes 13, 14, 15.
 Price, \$1.50; by mail, \$1.60.

Note.—To insure getting proper size, mark outline of hand on sheet of paper.

HONEY BOARDS.

Used to confine the queen to the brood chamber. Nos. 1 and 11 are unbound zinc. Nos. 12 and 13 are wood-bound, with a bee space one side.



**NEW
STYLE
WOOD AND
WIRE
HONEY
BOARD.**

No sharp edges for the bees to pass over

No. 11. 8-frame, unbound, 12x19½ inches. One, 25c.; ten, \$1.80.
No. 1. 10-frame, unbound, 14x19½ inches. One, 25c.; ten, \$1.90.
No. 13. 8-frame, wood-bound, 13½x20 inches. One, 30c.; ten, \$2.40.
No. 12. 10-frame, wood-bound, 16x20 inches. One, 30c.; ten, \$2.50.
No. 8. 8-frame, wood and wire, 13½x20 inches. One, 40c.; ten, \$3.75.
No. 7. 10-frame, wood and wire, 16x20 inches. One, 45c.; ten, \$4.00.

PERFORATED ZINC.

Used for making honey boards, also entrance guards, queen and drone traps, etc.

Perforated sheets, each, 32x96, \$2.00. Less than a sheet, per square foot, 10c.; by mail, 10c. per foot extra.

Miscellaneous

Queen Cell Protector. Doolittle. Each, 3c.; by mail, 5c.

West's Cell Protector. 10 for 65c.; by mail, 75c.

West's Spiral Cage Feeder. 10 for 80c.; by mail, 90c.

Hive Clamps, per pair, 5c.; 10 pairs, 40c.; by mail, 75c.; without screws, 10 pairs, 35c.; by mail, 65c.

Hill's Device. For covering frames in winter. 10 for 60c.; by mail, \$1.00.

Hubbard Section Press. Price, \$2.85.

Root's Section Press. Price, \$2.20.

PERFECTION

Gentlemen: The Twenty Dollar Bee Supply Outfit ordered has been received, and the goods set up. Everything went together all right in fine shape. The goods are all O. K. The Danze Outfit is just perfection. That premium book is an idol, binding and all. Am much obliged to you. Yours truly, till we want more.

L. W.

HONEY KNIVES.

Novice.	Price, 85c.; by mail, 95c.
Quinby.	Price, \$1.00; by mail, \$1.10.
Bingham.	Price, 80c.; by mail, 90c.
15c. Honey Knife.	Broad, square blade. By mail, 20c.

CAGES FOR QUEENS.

Benton. For mailing and introducing. Each, no candy, 5c.; by mail, 7c.; with candy, each, 10c. by mail.

The Feet. Each, 10c.; by mail, 12c.

Root's Queen Rearing Outfit

A complete set of tools and materials, including book of instructions, enabling any one with very little experience to rear his own queens at small expense. Price, \$4.75.

Queen Bees and Colonies

We are in position to furnish full-blooded Italian queens, and full colonies. It takes about five days to get these in from the apiary, so do not expect queens by return mail.



Untested Queen. April, \$1.75; May, June, July, August, September, \$1.50.

Tested Queen. April, May, June, July, August, September, \$2.50.

Selected Tested Queen. April, \$3.50; May or June, \$3.00; July, \$2.50; or September, \$3.00.

Full Colony. In an 8-frame hive. Price, \$8.00.

BEE VEILS.

Globe. Has five bars that keep veil away from head. Price, 90c.; postpaid, \$1.00.

Hat Veils. These veils have a rubber band round the top, so as to fit the hat snugly.

No. 1 Veil, made entirely of silk tulle. 90c., postpaid.

No. 3 Veil, cotton tulle, silk face. 65c., postpaid.

No. 3 Veil, cotton tulle throughout. 50c., postpaid.

NO. 30 TINNED WIRE.

¾-ounce spools. Each, \$0.05; dozen, \$0.40.

¼-pound spools. Each, \$0.15; dozen, \$1.30.

½-pound spools. Each, \$0.25; dozen, \$2.00.

1-pound spools. Each, \$0.35; dozen, \$3.25.

5-pound coils. Each, \$1.35. By mail, 1c. per ounce extra.

MANUM'S SWARMING DEVICE.

A most complete swarming device. The swarmer is light, conveniently carried, and will reach a swarm 20 feet from the ground. Complete, \$1.60; wire basket, with bail, no pole, \$1.20.

Bee Supplies

Tin Rabbets. 12 to 14 inches. Price: Per 10, 15c.; per 100, \$1.25.

T-Tins, 13 inches and under. Price: Per 10, 15c.; per 100, \$1.25.

T-Tins, over 13 inches and up to 15 inches. Price: Per 10, 20c.; per 100, \$1.40.

Flat Tins, 14 inches and under. Price: Per 10, 10c.; per 100, 50c.

Flat Tins, over 14 inches and up to 16 inches. Price: Per 10, 10c.; per 100, 75c.

Hive Tent, weight 6 lbs. Price, \$3.00.

Books for Bee Keepers. See page 131

POULTRY SUPPLIES

We carry a complete line of modern appliances, Foods and Remedies, for the profitable production of poultry, employ several practical poultrymen, and with our experience and splendid facilities, and the surpassing quality of our lines, we are in a position to render our customers more satisfactory service and better values than can be secured elsewhere.

For 1911 we offer many improvements, the most important being the system of incubator ventilation at the egg level.

We also offer a successful **New Outdoor Heated Brooder**. We have never before endorsed an outdoor brooder, but this new Lee Brooder, representing five years of careful study, is a thoroughly practical, weather-proof, automatically controlled brooder that successfully takes the place of a brooder house.

A valuable little device that will be welcomed by poultry dressers is the **Chapman Picking Frame**, which we are offering for the first time. Our special poultry catalogue and the **Lee** and the **Mann** Booklets give full details of many new improvements and contain much interesting information. We will mail them free on request.

If you are interested in poultry, let us know your plans, your problems, or your troubles. The service of our Poultry Department is free to you and we may be able to help you. All inquiries will have our most careful attention.

MANDY LEE INCUBATORS

HEAT

MOISTURE

VENTILATION

Perfectly controlled with mechanical accuracy.

The last problem known to artificial incubation has been solved in the new "Mandy Lee" for 1911.

More than 25 patents, the most practical scientific improvements in incubators and brooders, have been granted the Lee Company, and are used exclusively in the "Mandy Lee," and yet, considering construction and equipment, the "Mandy Lee" is the least expensive incubator.

IN the march of progress the "Mandy Lee" still outdistances all competitors, and the master mind of incubator construction that gave us the practical Incubator Hygrometer, and the improved heating and ventilation systems of the "Mandy Lee" has solved the last problem in artificial incubation in perfecting a device which makes possible a fresh supply of oxygen at the egg level without lowering the temperature or losing the moisture so necessary when the chicks are coming out. This is but one of the exclusive features of the "Mandy Lee."

Egg Level Ventilation.

The new "Mandy Lee" has large ventilators in the lower part of the door, and a corresponding number at back. These openings are covered with a finely woven brass wire cloth; through these ventilators fresh oxygen is constantly being supplied and the carbonic acid gas passing out. This diffusion of gases has no perceptible effect on the heat or moisture, but insures the chicks against suffocation at a time when the machine cannot be opened. The only perfect method of ventilation—no draft.

Sheet metal air-tight diaphragm, dividing the egg chamber and preventing the draft from the lamp, gases and superheated air from coming in contact with the eggs. **A vital point.**

Special Adjustment of egg-tray, thermometer and nursery, making the "Mandy Lee" Incubator **adaptable** to any size egg, from Bantam to Ostrich.

The above are only a few of the advantages offered. Everything about the "Mandy Lee" is distinctive, is different. The thermometer, the egg tester, the lamp, the chimney, etc., all bear the stamp of the expert poultryman whose experience has molded these details to the highest perfection of practical utility.

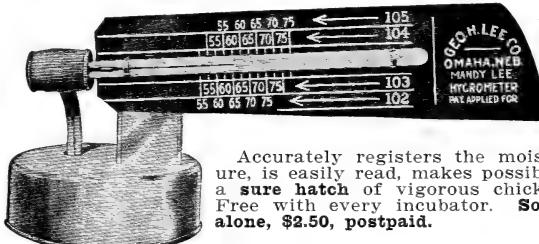
 Full details of the many superior advantages of the Lee Incubators and Brooders are given in the Lee booklets and in our own poultry catalogues, sent free on request.



FRESH
OXYGEN

Life giving oxygen is freely supplied at the egg level when the chicks are coming out,

without losing the moisture or lowering the temperature. No other incubator gives this important advantage.



Accurately registers the moisture, is easily read, makes possible a **sure hatch** of vigorous chicks. Free with every incubator. **Sold alone, \$2.50, postpaid.**

Egg Tray is a combined wire or slat bottom, and can be used either way.

Drop nursery bottom, permitting removal of chicks without opening incubator.

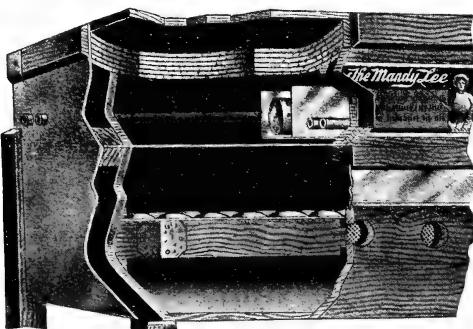
Nursery tray has a cloth bottom that can be turned up until the eighteenth day, thus cutting off the air space beneath the eggs.

Improved Moisture Pans, easily regulated. The new "Mandy Lee" **Fireproof Heater** described on page 118.

 Full details of the many superior advantages of the Lee Incubators and Brooders are given in the Lee booklets and in our own poultry catalogues, sent free on request.

"MANDY LEE" INCUBATORS—Continued**THE HEATING SYSTEM**

The perforated tube distribution insures to every egg the same degree of heat, and is another EXCLUSIVE LEE FEATURE.



The "Mandy Lee" heater passed the most rigid tests at the Underwriters' Laboratories in Chicago and could not be exploded nor could the incubator be set on fire from the heater. The "MANDY LEE" is absolutely fire proof.

The hot air does not come in contact with the eggs as in other hot air incubators, but warms them by radiation through the air-tight metal diaphragm. The control and adjustment is so perfect that the heat will vary but a fraction of a degree, even should the outside temperature change as much as 20 degrees.

THE FEATURES OF THE "MANDY LEE" HEATER ARE

A special burner with high wick tube and wide flame slot.

A lamp bowl in one piece.

A self-seating chimney.

A special vent for any gas forming in the lamp.

A perforated sheet metal cylinder in top of heater which puts out the lamp in case of accident.

A protecting circular shield guarding the body of the Incubator.

As a further precaution the lamp cannot be filled without removing it.

All parts exposed to heat are fully protected by sheet metal and asbestos.

The "Mandy Lee" is built of air-seasoned California redwood, is of handsome cabinet construction, with cherry finish, has heavy brass and bronzed metal trimmings, double glass doors and the double walls are insulated with from $1\frac{1}{2}$ to 3 inches of asbestos or mineral wool. Note the sectional view—no other incubator is so well built.

1911 "MANDY LEE" INCUBATORS—MADE IN FIVE SIZES.

All complete with Lamp, Hygrometer, Thermometer, Moisture Pan, Combination Egg Tray, Egg Tester and Level. Prices quoted are packed for shipment F. O. B. Portland.

	Weight Crated, Lbs.	Price.
100-Egg—The right size for the small breeder.....	133	\$16.00
140-Egg—The best for the average poultryman.....	140	22.00
200-Egg—The new size, very popular; a special value at the price.....	192	25.00
280-Egg—The best for the larger plants, much in demand.....	216	34.00
400-Egg—This is the ideal machine for large plants.....	260	40.00

The Mandy Lee Outdoor, Heated and Regulated Brooder**THE FIRST OUTDOOR BROODER
TO MEET WITH OUR APPROVAL.**

After five years of patient study and experiment, Mr. Geo. H. Lee has successfully solved the problems of an outdoor brooder.

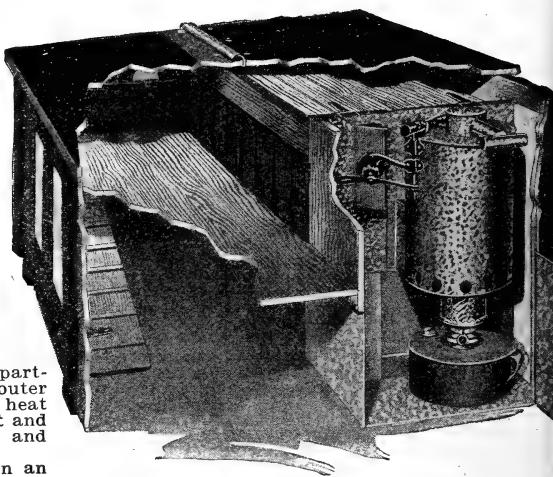
Instead of the usual single floor we have a double floor 3×4 and 3×5 feet, the lower floor being directly on the ground where the chicks come in contact with mother earth even in most inclement weather. We have the Mandy Lee contact heat under a warm blanket—a long, narrow hover with curtain on both sides—just like our regular brooder—just like the old mother hen.

The Lamp is in an ample separate compartment. All of the lamp gases pass to the outer air, while the Heater throws part of its heat within the Hover above the curved blanket and the rest to the upper and lower feeding and scratching compartments.

Then there is the Regulator, just as in an incubator.

Prices: F. O. B. Portland packed for shipment: Large size, weight 178 lbs., \$22.00; small size, weight 111 lbs., \$20.00.

We urge you to investigate this Brooder, as we are thoroughly convinced of its great value and utility.

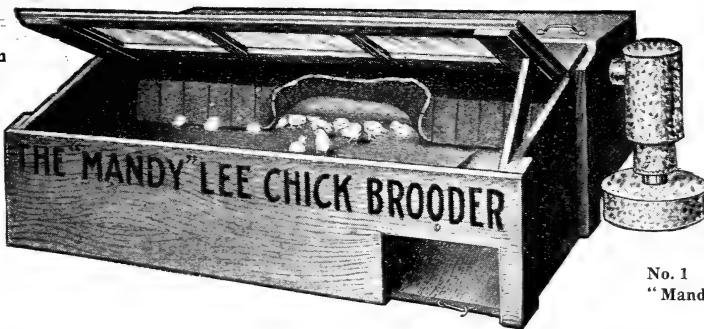


Direct
Contact
Heat



The Only Brooder That Provides Natural Brooding Condition

"Hovers 'Em like a Hen"



Showing portion of Hover, Lamp, Extension-Chimney, etc.

No. 1 Regular
"Mandy Lee."

"Mandy Lee" Direct Contact Heat Brooders are the most successful and satisfactory made. No improvement seems possible; no change necessary. The idea of applying a soft contact heat direct to the backs of the chicks was never incorporated into anything practical until Lee began the manufacture of the "Mandy Lee," nor until that time had the correct principle of brooding been recognized, namely, that the little chicks cannot comfortably breathe the same heat required for giving a comfortable warmth to its body. We cannot better illustrate this theory than by repeating the following:

FOR INSTANCE: Some night when you are lying in bed snugly covered and comfortably composed for sleep, just put a thermometer under your clothing next to your body, and take the temperature of the air immediately surrounding your real self. You will find it to be somewhere between 95 and 98 degrees. Now suppose that instead of this method of comfortably warming yourself, you should go and lie naked in a room heated to even 95 degrees. You can imagine how uncomfortable you would be. Perhaps you may recollect some hot summer evening when you rolled and tossed all night, unable to sleep on account of the heat. This is because you cannot be either comfortable or healthy if your head is as warm as your body. (Buy a brooder with blankets.)

THE HOVER—A long, narrow hover—the ideal shape—heated evenly from end to end by a triple set of overhead pipes, one pipe passing entirely through and carrying out all the smoke, gas, etc., from the lamp, which is located outside the brooder.

Again, a second pipe carrying cold, pure air into the hover, which is heated by the first pipe, and that heated air heats the blanket to the temperature of a hen's body.

The hover blanket is made of regular bed blankets, shaped in the form of a semi-circle, hanging loosely and in the center to within an inch of the floor, and with curtain front and back. (See sectional view.)

SOFT-CONTACT HEAT—Here is how the chicks get that soft, contact heat, so natural, so necessary to their comfort, and so entirely absent in other brooders.

The little chicks lay with their backs up against this warm blanket, just like a hen's body, and their heads out in the open air, just like illustration above.

There is no crowding here; no smothering; no trampling. Each chick gets just as much heat as it wants and no more. In other brooders all the chicks must get the same amount of heat, but not so in the Mandy Lee. It's a natural mother for them.

"MANDY LEE" Brooders come in five styles:

THE NO. 1, OR REGULAR, which we recommend for all general purposes.

THE NO. 2, OR SECONDARY, fills a demand for a practical, economical method for caring for chicks from three to eight weeks old.

THE SECTIONAL, which is the cheapest and best practical arrangement for economizing space in Brooder Houses.

NEW FIRELESS BROODERS, which have given splendid satisfaction, and are very popular as they are safe and economical.

THE NEW OUTDOOR HEATED BROODER—SEE OPPOSITE PAGE.

(See following pages for description and prices.)

ADVANTAGES OF THE LEE BROODER.

No lamp fumes or superheated air in the hover.
Glass Front forming a comfortable exercising-room for the little chicks, with similar space at back.

Opens up and cleans easily, an important feature.

All Cloth and Blankets are on wood strips, easily removable for cleaning or replacing.

Lamp Flame is always in plain sight, lamp easily removed.

A Lamp Burner that does not heat and that successfully burns medium grade oils.

MANDY LEE BROODERS—Continued

No. 1, or Regular "Mandy Lee"

Outside dimensions, 3x4 feet. It is as large as any 200-chick brooder on the market, but we call it only 100-chick size—50 chicks on each side of the hover. It will hold more, but it doesn't pay to crowd. Better have 50 healthy chicks in your brooder than 100 weakly, sickly ones. The cost of a few brooders is insignificant as compared to the value of the season's hatch. Price complete, including Box Germozone, Drinking Fountain and Thermometer, \$15.00

No. 2 Secondary Brooder

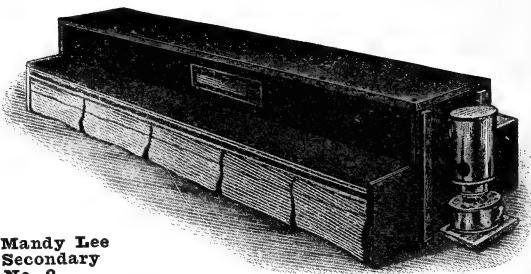
This is a larger, more roomy and less expensive brooder for older chicks or those from three to eight weeks of age. It is all hover, and, while occupying no more floor space than the other brooder, gives fully twice the actual brooding capacity.

It is simply a mother for the chicks that are too large for the ordinary brooder, but not old enough to "hustle for themselves" during damp weather or cool nights.

Once used, this brooder is almost indispensable. It seems to fit into a place no other brooder can occupy.

It can be used anywhere—in a poultry house, barn, shed, piano box—just so it is protected from wind and storm.

Price, \$9.50



Mandy Lee
Secondary
No. 2

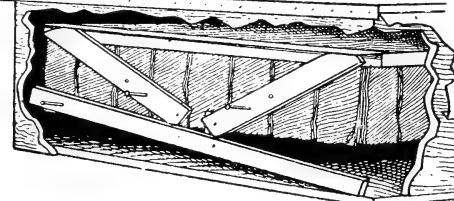
Lee Sectional Brooders

These new brooders are very similar to the regular Mandy Lee Brooder, but designed for consecutive arrangement in the brooder house, and in two tiers, one above the other, to economize space. Price, \$13.00. Lee's Catalog tells all and shows illustrations. The best brooder house idea we know of.

"Mandy Lee Fireless Brooder"

Safe, Economical, Practical

FIRELESS BROODERS offer many advantages in economy, safety and convenience, and under equal conditions will rear stronger,



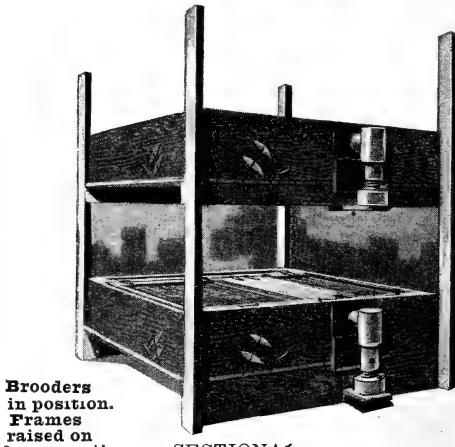
Showing Adjustable Hover

THIS ADJUSTABLE HOVER is the most important improvement in Fireless Brooders, and can be raised or lowered according to the outside temperature or to suit the size or number of chicks. The adjustment is easily made from the front of the Hover without opening the top.

Besides this new Adjustable Hover, "**MANDY LEE FIRELESS BROODERS**" have double doors, properly arranged ventilators, metal covered top and rain shield. All parts are readily accessible for cleaning and airing.

Fireless Brooders, like other brooders, should be kept in a place of even temperature as far as possible, and as the warmth depends on the natural heat of the body, enough chicks should be together to maintain the proper temperature. This can then be regulated by the Adjustable Hover.

Don't overcrowd your Fireless Brooder; treat it like any other brooder and you will get larger, more vigorous chicks that feather out earlier than those raised in the heated brooders.

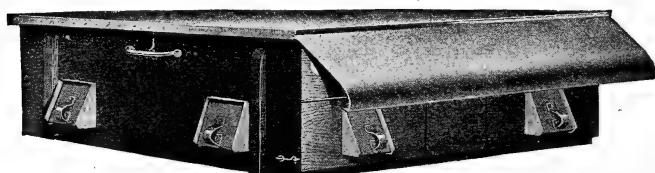


Brooders
in position.
Frames
raised on
lower section.

SECTIONAL.

healthier, larger chicks than a heated brooder. We have had wonderful results with the "Mandy Lee," and recommend it as the **Best Fireless Brooder**.

A feature of the "Lee Fireless" is the adjustable hover; made as light as possible, being a special weave of open-mesh flannel stretched on a light frame in such a manner as to give a proper circulation of air and even distribution of heat.



NEW
"American Standard
OF
Perfection"
\$1.35, postpaid

"Mandy Lee Fireless Brood-ers" are made in two sizes: { No. 8, for 100 chicks \$6.00
No. 10, for 200 chicks 9.00

MANN BONE BUTTERS

THE ONLY BONE MILL THAT WILL CUT BOTH GREEN AND DRY BONE.
WILL NOT CLOG.

THE Mann's Green Bone Cutter is offered to the poultry world on a warranty to produce a perfectly edible poultry food, with no waste, from any lot of green bones, with less labor and less annoyance than any other bone cutter.

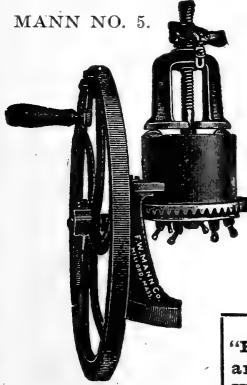
We send the Mann's to any responsible poultryman with this understanding, if you are not satisfied that it meets every claim we make for it, notify us and we will give you instructions to return the machine, and will, upon receipt of same refund purchase price. Could you ask more?

The Mann's is the only machine which has a self governing feed, producing uniform pressure against the knife, whether the bone be hard or soft. You set the machine to suit your strength, and it never requires more power than you set it for.

MANN'S NO. 5.

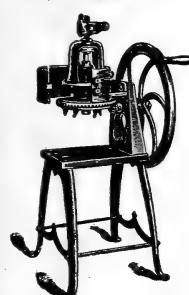
Has four knives, large, solid cylinder, and has the latest patent automatic governing spring feed, which makes it one of the best low-priced bone cutters ever offered. We can furnish with crank, balance wheel, or mounted on iron stand. (See cut.)

MANN NO. 5.

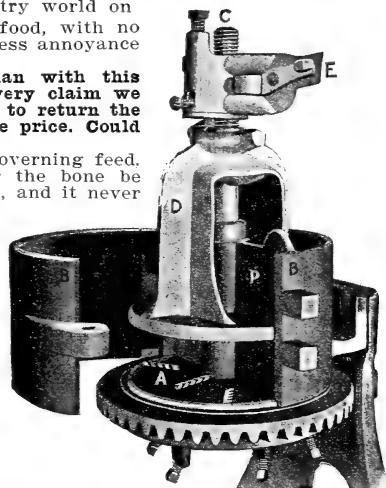


**'BUGS
and
WORMS'
FREE**

*“Diamond Chick Food”
IS
Clean, Wholesome,
Safe
NONE OTHER SO GOOD*



MANN'S NO. 9.



Mechanism of the Mann's showing automatic force-feed, cylinder parts, etc. Mann's catalog give all details.

MANN'S NO. 7.

The New No. 7 is mounted on a strong iron stand, and has patent automatic governing spring feed. Large, open-hinged cylinder, giving instant access to all working parts, has six knives, gear guard, anti-clog device, heavy balance wheel and other improvements. (See cut.)

MANN'S NO. 7½.

Adapted to run either by hand or power without any change. The particular advantage of the 7½ is that while it is a complete power machine, it can be operated by hand just as easily as the No. 7. It is recommended even if you have no power at present, for should you get power in the near future, you need be at no further expense. It has all the improvements. It meets a long-felt want.

Mann's No. 9

About the same as No. 7, except that it has a larger cylinder and greater holding capacity, different design and larger table.

Mann's No. 11

The No. 11 is exactly the same as No. 9, with the power parts added. It has all the latest improvements. Capacity, 100 pounds per hour.

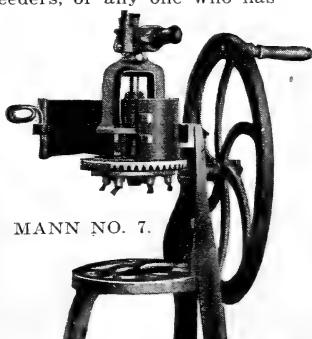
Mann's No. 12 — Power

Strictly a power machine, and full of business from top to toe. Capacity, 120 to 150 pounds per hour. Horsepower required, one to two. Just the machine for marketmen, extensive breeders, or any one who has large quantities of bone to cut.

Price List of Mann's Bone Cutters

New Styles.

	Price.	Wgt.
No. 5 C (with crank handle)...	\$ 7.75	30
No. 5 B (with balance wheel)...	10.00	55
No. 5 BM (B. W. and iron stand)...	13.00	80
No. 7 (B. W. and iron stand)...	15.00	107
No. 7½ (hand or power).....	21.00	150
No. 9 (B. W. and iron stand)...	22.00	163
No. 11 (power machine).....	30.00	215
No. 12 (power machine).....	35.00	260
MANN'S NO. 11 NO. 15 (power machine).....	67.50	420



MANN NO. 7.

MANN'S HANDSOME 40-PAGE CATALOG

Is fully illustrated and tells all about the different style green bone cutters, clover cutters, corn shellers, grit smashers, etc., and contains much valuable information. Free on request.

PORTLAND SEED COMPANY'S

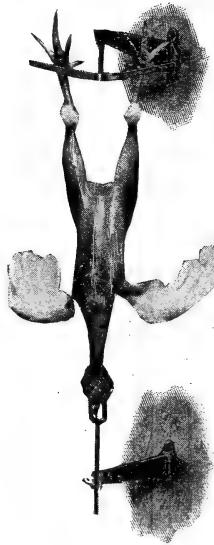
BANNER ROOT CUTTERS.

These excellent machines are so low in price that every farmer, stock-raiser or poultryman should have one, as roots are the cheapest green feed for stock, and make healthy hens, their economy and food value is astonishing.

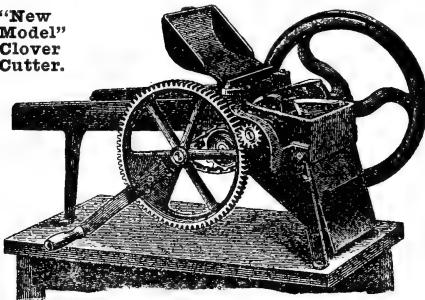
The Banner is substantially made of first class material, cuts fast, is easy running, leaving the food in fine ribbon like strips, making choking impossible. Is eaten by fowls of any size, or by lambs.

We offer two sizes: No. 7 (see cut) and No. 28, a larger cutter with pulley for attaching power; can also be run by hand.

Banner No. 7, weight, 50 pounds. \$5.50
Banner No. 28, weight, 150 pounds. \$20.00



"New Model"
Clover
Cutter.



"New Model" Clover Cutter

The "New Model" Clover Cutter is designed for cutting, either green or dry, such growths as clover, alfalfa, vegetable tops, etc., into $\frac{1}{8}$ -inch lengths. These growths are the cheapest and most productive egg-forming poultry foods for cold weather.

The feature that gives the "New Model" easy supremacy over similar machines is the cutting mechanism. The machine can be kept in perfect cutting order at all times, because the cutter bar is adjustable and easily accessible, and the four 7-inch spiral steel knives can readily be removed for sharpening. Those who are familiar with "ordinary" clover cutter construction will appreciate these improvements.

The "New Model" is made only of iron and steel, from entirely new patterns. It is a strong feeder, has large capacity, runs unusually easy and will do perfect work indefinitely. Length over all, 28 $\frac{1}{2}$ inches.

The machine is intended to be mounted on a box or bench at any height to suit the operator. Weight, 60 pounds.

Price, \$10.00.

Mann's Clover Cutter

Made entirely of iron and steel; cannot warp or shrink. It cuts any kind of hay or clover, either dry or green, and more rapidly than any other make. Each revolution of the balance wheel produces twelve cuts. Do not buy a clover cutter until you have seen Mann's.

Price, \$10.50; mounted on iron stand, \$12.00.

Mann's Cast Iron Mortar

For breaking glass, crockery ware, oyster shells or other dry substances for poultry. Weight, 33 pounds; height, 12 inches; 9 inches square; pestle 4 feet long.

Price, \$3.50.

Mann's Corn Sheller

Best low priced corn sheller made. A profitable tool if you have corn to shell.

Price, \$3.00.



THOMPSON'S
Banner Root Cutter
No. 7
PATENTED
OCT. 24, 1895

FOR POULTRY, ETC.

Wilson Dry Bone Mill No. 1

This is a practical mill, grinding all kinds of shell, crockery, grit, burnt or dry bone, feed, etc. Instantly adjusted to grind coarse or fine. Every poultry keeper should have one of these mills. You will find them very convenient and serviceable. Weight, 33 pounds. Diameter of hand wheel, 20 inches.

Price, \$5.50.

Wilson Mill No. O

A family grist mill in itself. Especially made for grinding flour, corn meal, spices, coffee, etc., for table use. It can also be adjusted for cracking grain. Capacity and size same as No. 1; hopper round. Weight, 30 pounds.

Price, \$5.50.

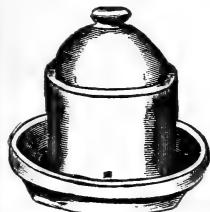
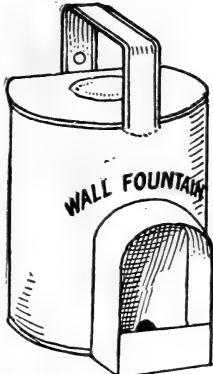


Wilson Mill No. 1.

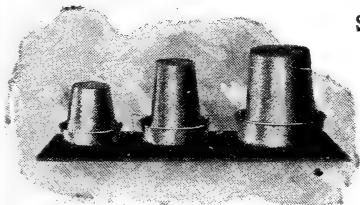
Bond's Grit Machine

Will break rock, limestone, ore, crockery, glass, dry clam and oyster shells, etc. A boy of seven can work it. Drop the material in the top and work lever up and down quickly, but not with great pressure. Do not use green bone or wet oyster shells, but dry them. Weight, 25 pounds.

Price, \$4.00.



Stone Fountains.



Galvanized Fountains.

GALVANIZED IRON DRINKING FOUNTAINS.
 Our Galvanized Iron Drinking Fountains embody every good feature of the down-to-date drinking fountains, and, we believe, are the best in use. They are easily filled, cleansed and kept clean. If placed in the shade in summer time, the water will keep nearly as cool as in an earthen vessel. They are much lighter than the earthenware fountains and are safer to ship. A dozen can be put in a compact package for shipment, as they nest together. We offer them at a very low price.
 Small size..... Each, 30c.; six, \$1.70
 Large size..... Each, 50c.; six, \$2.75.

WIRE HEN'S NESTS.

(See cut.)
 Strongly made; very durable; fasten to the wall; no harbor for vermin.
 Price, each, 25c; dozen, \$2.50.

KNOX LICE-KILLING NEST EGG.

(See cut.)
X-Ray. This Egg Tester is made to use on a lamp and will fit the ordinary No. 2 burner a
 Price, 50c. postpaid.
Harding's Perfection. For sunlight. (See
 Price, 60c. postpaid.)



HARDING'S EGG TESTER.



WIRE NEST.



X-RAY TESTER.



OPAL NEST EGG.

Miscellaneous Poultry Supplies

SANITARY SELF-FEEDING BOX.

(See cut.)
 Made of heavy galvanized iron; soon pays for itself in preventing waste of feed. For keeping grit, shells and charcoal before the fowls at all times. Price, each, 75c.

MANN'S SWINGING FEED TRAY.

(See cut.)
 For water or feed. Fowls cannot scratch dirt into it, or feed out of it, nor roost on it; yet will not tip over or spill the food out.
 Price, 18-inch, \$1.00; 27-inch, \$1.25; 36-inch \$1.50.

WIRE-COVERED FEEDING TROUGH.

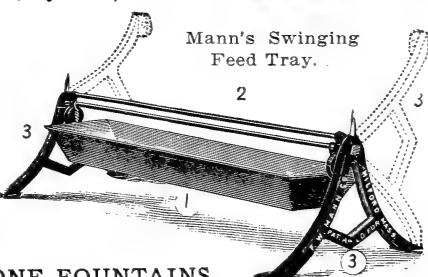
Decidedly convenient for young chicks. (See cut.)
 Price, 35c.; by mail, 50c.

GALVANIZED WALL FOUNTAINS.

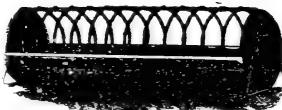
(See cut.)
 Something new and serviceable. To be hung on the wall or against an upright post, at any height. The hood over the trough protects the water from becoming soiled. Anyone can easily see the convenience of these.
 One gallon size. Each, 75c.
 Two gallon size. Each, \$1.00



Mann's Swinging Feed Tray.

**SANITARY STONE FOUNTAINS.**

These are strong and well finished; made in two pieces and easily washed and kept clean. They probably keep the water cooler than the galvanized fountains, but are heavier to handle and more liable to break.
 Price, $\frac{1}{2}$ gal., 35c; 1 gal., 50c



Wire-Covered Feed Trough.

CHINA NEST EGGS.

Best grade Opal Eggs.
 Price, 3 for 10c; 12 for 35c; 20c per dozen extra for postage.

EGG TESTERS.

A combined nest egg and lice killer. By simply using it in the nests in the same manner as an ordinary nest egg is used, laying hens are cleared of lice and mites, and are able to occupy the nests with comfort. Do not accept the worthless substitutes.

Price, each, 10c, postpaid; per dozen, 75c; postpaid, \$1.00.



Miscellaneous Poultry Supplies

LEG BANDS FOR POULTRY AND PIGEONS. (See cuts.)

Every chicken must have a leg band on before it can be entered in a poultry show. In ordering Leg Bands be sure to state sizes wanted, or breed of fowls bands are to be used on, and number wanted for males or females.



ECLIPSE



DOUBLE CLINCH



SMITH SEALED



LEADER BAND

PIGEON BANDS—We can supply the **Double Clinch** or **Sealed Band** at above regular prices, or the **Open Band**—you simply clasp it on—at the price of **Eclipse**.

DOUBLE CLINCH—A new band, very safe; no exposed corners, ends or loops; has double fasteners.

Prices, postpaid, 12 for 20c; 25 for 35c; 50 for 60c; 100 for 85c.

SMITH SEALED—Of aluminum and so constructed that by simply crushing a soft rivet they are sealed on the bird's leg, and must be destroyed to be removed. See cut, band sealed with letter

Prices, postpaid, 12 for 30c; 25 for 50c; 60 for \$1.00; 100 for \$1.50.

SMITH SEALING TOOL.

Made especially for sealing the Smith leg bands.

Plain jaw, 50c; lettered jaw, any letter, 75c; postage 10c.

PETTY'S POULTRY PUNCH.

Latest, most convenient Poultry Punch; can be put on a key ring or used for a watch charm. Will not clog. Thoroughly practical.

Price, postpaid, 25c.

RELIABLE POULTRY MARKER.

For marking the web between the toes. One of the best and handiest markers.

Postpaid, 35c.

POULTRY KILLING KNIFE.

French, best and most popular.

Price, postpaid, 50c.

INSECT POWDER GUN.

There is no need to waste any powder if you use this small hand powder blower. Detachable bottom for filling. For use in applying insect powder of any kind on poultry, dogs or cats.

Price, each, small, 15c; large, 30c, postpaid.

THERMOMETERS

FOR INCUBATORS—Tested.

Fig. 8—Cornell style	.....	\$1.00
Fig. 6—P. S. Co.'s triangle shape; metal back	.....	.75
Fig. 10—P. S. Co.'s straight metal back	.....	.60
Fig. 14—Triangle shape; best incubator thermometer made. Certified correct; worth the additional cost	.....	1.50
Mandy Lee style	.....	.80

ROOST HANGERS.

(See cut.)

Fill the cup with lice killer or coal oil. Poultrymen should not be without them. Will keep the birds free from vermin.

Price, each, 10c; per doz., \$1.00

HYDRO SAFETY LAMPS.

Oakes—Made especially for incubators and brooders; has a water jacket and is perfectly safe.

No. 1—Small size, $\frac{5}{8}$ -inch wick	.....	\$1.00
No. 2—Medium size, 1-inch wick	.....	1.50
No. 3—Large size, $1\frac{1}{2}$ -inch wick	.....	1.75

EXTRA PARTS

We can supply extra lamps, burners and all parts of the different machines we sell at about Eastern prices. Write for prices of what you want.

Sprayers—Liquid or Powder

FOR APPLYING LICE KILLERS,
FLY BOUNCERS or WHITEWASH

Page 105

Fig. 12—Peep O' Day	.....	\$0.65
Fig. 2—P. S. Co.'s; for any style brooder	.....	.50
Mandy Lee style	.....	.60

FOR GENERAL USE.

Cabinet, 8-inch wood back, nice finish	.....	.40
Fig. 4—Household, 7-inch, black enamel, tin case	.....	.25

RELIABLE FEED COOKER.

Holds 20 gallons; weight, 65 lbs.; length, 24 inches. See poultry Catalog for full description.

Price, \$8.00.

CAPONIZING INSTRUMENTS.

The demand for capons exceeds the supply, the price per pound averaging more than twice as much as that paid for ordinary roosters.

P. S. Co.'s Standard, the best low-priced set.

Price, postpaid, \$2.00.

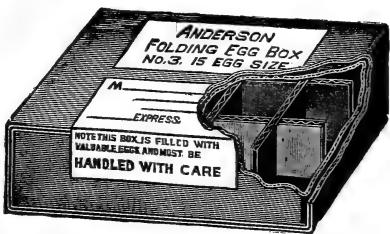
Wigmore, a first-class outfit with book of instructions.

Price, postpaid, \$2.50.

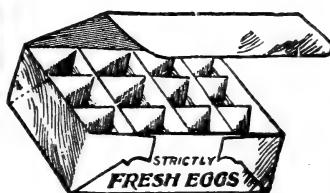
Miscellaneous Poultry Supplies—Continued



Egg Carrier



Set up ready to ship



Ideal Egg Box

ANDERSON FOLDING EGG BOXES.

Made of heavy corrugated paper. The greatest advantage in it is that they can be bought K. D. (in the flat), and the express or freight will be about one-sixth of what is has been on the old style boxes. Only a few seconds' work to set the box up, pack it with eggs, and address it. These boxes are light, but very strong, being firmly braced, and will stand the weight of several hundred pounds without crushing.

No. 4—30-Egg Size, 25c each; 6 for \$1.25; dozen, \$4.00.
No. 5—50-Egg Size, 40c each; 6 for \$2.25; dozen, \$2.25.
No. 3—15-Egg Size, 15c each; 6 for 80c; dozen, \$1.50.
 Sample box No. 3, postpaid, for 25c.

Thorobred Eggs for Hatching
See Page 132

IDEAL PAPER EGG BOXES.

(See cut.)

Intended for use in delivering eggs to private families. If you have a "select" egg trade, you should use this box. Nicely printed with a blank space for your name and address. Printed to order in two M lots at no extra charge. They ship "knocked down" at very low rates.

Prices: 1-dozen size, 25c dozen; \$1.00 per 100;
\$9.50 per 1,000. Sample box by mail, 5c.



COOP COLLAPSED.



COOP SET UP.

Collapsible Poultry Coop

These are the neatest, lightest and strongest coops for shipping poultry in that we have ever seen. They are well made, and will last for years. Easily cleaned and stored. They are up-to-date coops, and make a good impression. They are a mighty good investment for any poultry-raiser. Coops are made in three sizes. All treated with oil. Order a sample coop.

No. 1 Coop. For 12 to 24 chickens, size 36x24x12, weight 23 pounds. **Price, \$1.80.**

No. 2 Coop. For 24 to 36 chickens, size 48x30x12, weight 33 pounds. This is the favorite size. **Price, \$1.95.**

No. 3. Coop. For turkeys and geese; will carry 250 pounds of weight; size 48x30x16. **Price, \$2.00.**

WIRE NETTING FOR POULTRY RUNS, TRELLISES, ETC.

No 20 Wire, in rolls 150 feet long, in the following widths:

	12-in.	18-in.	24-in.	30-in.	36-in.	48-in.	60-in.	72-in.
2-inch mesh	\$1.00	\$1.50	\$2.00	\$2.50	\$2.90	\$3.80	\$4.75	\$5.65
1-inch mesh	2.35	3.50	4.70	5.85	7.00	9.30	11.50	13.75
Short lengths, 2-in. mesh, 16 sq. ft.; 1-inch mesh, 3c.								

NEW "UNION LOCK."

Union Lock "Square Mesh" Poultry Netting is made of 2 strands of No. 20 wire, run horizontally with No. 19 steel wire vertical strips every 3 inches, the first seven cables 1 1/4 inches apart; the next 6 are 2 inches, and all above are 4 inches. This makes the fence tight at the bottom, where needed for small chicks. This fence will fit any unevenness of ground, and because of its strength and construction requires no top or bottom rail and only half as many posts as ordinary wire netting.

Price, Per Roll:

24-inch, 165 feet to the roll.	.....	\$3.45
36-inch, 165 feet to the roll.	.....	4.15
48-inch, 165 feet to the roll.	.....	5.05
60-inch, 165 feet to the roll.	.....	5.95
72-inch, 165 feet to the roll.	.....	6.55

The 1911 "AMERICAN STANDARD OF PERFECTION" is now ready and will be the official guide for judges and breeders for the next five years. **YOU NEED THIS GUIDE POSTPAID, \$1.35.**

Portland Seed Co.'s "Diamond Quality" Poultry Foods



WE manufacture our Diamond Poultry Foods from choice, clean, wholesome material, and they are the results of a lifetime of careful study and experiments by a thoroughly practical expert, who is a recognized authority on feeding.

Portland Seed Co.'s Diamond Chick Food

Easy to Feed Just as It Is.

MAKES HEALTHY, VIGOROUS, STURDY CHICKS.

A complete balanced ration, that will make chicks grow and keep them healthy.

Each year brings an increasing demand for our popular "Diamond Chick Food," and our annual output now averages over twenty carloads. This is our **proof of quality**.

The select grains that are used in the preparation of **Diamond Chick Food** are cut by special process, screened to a uniform size and run through a fanning mill to remove the dust and meal, which is the **fatal element** in most chick foods. After this process, the ingredients are carefully weighed and mixed in correct proportions.

You can raise so many more chicks by feeding it that it is the **cheapest feed you can buy.** Ask for descriptive pamphlet. Directions for feeding in each sack or package.

Look for our "Diamond Brand"; there are several substitutes on the market.

Price: 5 lbs., 25c; 12 lbs., 50c; 25 lbs., 90c; 50 lbs., \$1.60; 100 lbs., \$3.00.

Portland Seed Co.'s Diamond Egg Food

Makes hens lay when eggs are high; keeps all poultry healthy. Un-equalled for feeding young stock.

THE MOST SUCCESSFUL COMBINATION OF EGG-PRODUCING ELEMENTS ever prepared, being a complete ground food for growing fowls and hens, encouraging rapid growth and increasing egg production. Can be fed dry or as a mash. Diamond Egg Food costs no more than other foods, and is of twice the feeding value.

Price, per lb., 3c; per 100 lbs., \$2.25.

DIAMOND SCRATCH FOOD.

The most successful "up to now" ready-mixed complete food. Makes hens sing, and singing hens lay. A perfect "working ration" for fowls. Grains, Grit, Shell, Beef, Bone and Charcoal carefully prepared in the correct proportion; a veritable "hen's" delight, and a great egg-producer. Price, per lb., 3c; per 100 lbs., \$2.25.

HIGH-GRADE BEEF SCRAPS.

Diamond Brand, Special. A new beef product, perfectly prepared, fine ground and clean. The highest feeding value yet produced.

Price: 5 lbs., 25c; 50 lbs., \$2.25; 100 lbs., \$4.00.

Steel Cut, granulated, clean and free from dust, hide, hair, etc. There is no waste; can be fed like grain if preferred. Every poultry keeper knows the value of this food.

Price: 5 lbs., 25c; 50 lbs., \$2.00; 100 lbs., \$3.75.

GRIT.

Every poultry raiser should keep a supply of this grit in each pen. Made in two sizes, chick and hen size. We always send hen size unless otherwise ordered.

Diamond Crystal.

Price: 5 lbs., 10c; 100 lbs., \$1.25.

Mica. An excellent grit. Per 100 lbs., \$1.25.

CHARCOAL.

Our Charcoal is guaranteed, prepared especially for poultry; no dust; a good thing for bowel trouble, sour crop and indigestion; a health preserver.

Prices: 1 lb., 10c; 10 lbs., 75c.

BIRD SEED.

Not for Planting. Special Prices in Quantity.

F. S. Co.'s Best Mixed. Per lb., postpaid, 20c.

Canary—Best Re-cleaned. Per lb., postpaid, 20c.

Hemp Per lb., postpaid, 20c.

Millet Per lb., postpaid, 20c.

Rape Per lb., postpaid, 20c.

Cuttle Bone. Large bone. Postpaid, 2 for 5c.

BLOOD MEAL.

The most highly concentrated egg-producer on the market. To be fed in soft food. Unexcelled as a food for forcing growth of chicks or as an egg food.

Price, 1 lb., 10c; 10 lbs., 60c; 50 lbs., \$2.50; 100 lbs., \$4.00.



GRANULATED BONE.

Our "Diamond Brand" is made from selected hard, white, raw bones, and of a superior quality; an indispensable food for laying hens.

Diamond.

Price: 3 lbs., 10c; 10 lbs., 30c; 100 lbs., \$2.25.

Ordinary. Price: 100 lbs., \$2.00.

HIGH-GRADE MEAT MEAL.

A highly concentrated food. It is cooked meat, dried and ground. Very rich in protein. It should be mixed with the soft food. No hides or tankage in our meat meal, but, as its name implies, meat, cooked, dried and round; unexcelled for egg-production.

Diamond Grade.

1 lb., 5c; 10 lbs., 40c; 100 lbs., \$3.75.

Standard. Good grade 100 lbs., \$2.50.

OYSTER SHELLS, CRUSHED.

We offer nice, clean stock, free from dust and waste. These should be within reach of your hens at all times. In two sizes, coarse and fine.

Diamond Brand.

Price: 5 lbs., 10c; 100 lbs., \$1.50.

Western. Price: 5 lbs., 10c; 100 lbs., \$1.35.

CLOVER OR ALFALFA MEAL.

The best substitute for green food for Winter feeding; helps keep the egg basket full; mixed with the soft feed is good for large or small chicks; endorsed by leading experts.

Price: 1 lb., 5c; 10 lbs., 35c; 100 lbs., \$1.50.

POULTRY PEPPER.

A good tonic and invigorator; ground.

Price: 1 lb., 25c; 5 lbs., \$1.00.

REMEDIES, LICE KILLERS, ETC.

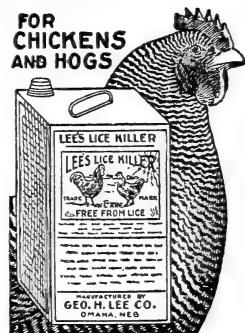
Lee's Foods and Remedies for Stock and Poultry

THE NAME INSURES QUALITY.

We are Western Agents for these goods, and have sold them for years, with never a dissatisfied customer. This is an extraordinary statement, but it is absolutely true.

The reason is plain to all users of Lee's goods—they are never misrepresented; they do all and more than is claimed for them, and the manufacturers constantly are striving to increase their value and efficiency.

If you have never used the Lee goods or remedies, get in line. You cannot afford to be without them. Get in touch with the Lee Company. Their valuable booklets are free to poultry-keepers, and contain the most reliable and complete information to date on all poultry problems.



Lee's Lice Killer

LIQUID. Destroys either by vapor or contact. No trouble to apply; just paint the roosts or walls at night. Kills poultry and houses of all vermin; is prepared exclusively for this purpose, and there is nothing just as good.

Price: Quart, 35c.; $\frac{1}{2}$ -gal., 60c.; gal., \$1.00; 5 gals., \$4.00.

LEE'S BEST CONDITIONER STOCK FOOD.

Promotes good health, digestion and assimilation.

Put up in 25c and 75c pkgs.; 25-lb. pails, \$2.50.

LEE'S EGG MAKER is not a tonic nor a medicine, but a meat food of great value. It will make hens lay, chicks grow, and keep them all in a healthy, vigorous condition.

2 $\frac{1}{2}$ -lb. pkg., 25c.; 5 $\frac{1}{2}$ -lb. pkg., 50c.; 25-lb. pail, \$2.00; 100-lb. sack, \$7.00.

LEE'S HOG REMEDY cures all diseases of hogs and keeps them healthy.

Pkg., 75c.; 25-lb. pail, \$2.00.

LEE'S WORM POWDER for horses, cattle, sheep and hogs. Safe and sure in result.

Pkg., 25c.; by mail, 40c.

LEE'S MIXED STOCK SALT. Every breeder should have a supply of this salt.

25-lb. sack, \$1.25; 100 lbs., \$4.00.

LEE'S CARBOLIC SHEEP DIP. For lice, ticks, mange, itch or scab, on cattle, sheep and hogs.

Qt., 50c.; $\frac{1}{2}$ gal., 75c.; gal., \$1.25; 5 gals., \$4.50.

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Quart can, 75c.

LEE'S PEERLESS BUG KILLER.

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Germozone

The cure that cures. Its action is marvelous. Never fails to cure Bowel Complaint, Cholera, Roup, Colds, etc. Whatever malady threatens, Germozone will cure or prevent. Germozone's greatest value is in prevention of sickness. If you wait until a hen is sick, you lose several weeks of egg production, even though you cure her. Germozone prevents sickness by regulating the bowels, and should be given regularly twice a week in the drinking water to chickens, young or old, sick or well.

PRICES.

Lee's Germozone. Liquid. 12-oz. bottle..... 50c.
Lee's Germozone. Tablets. Pkg., postpaid..... 50c.

Send for the Lee Book. It's Free.

Diamond Poultry Remedies

These are manufactured exclusively by us, and we fully guarantee them.

Diamond Roup Cure. Comes in powder form. Full directions in each box.

Price, per box, postpaid, 50c. and \$1.00.

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Death to lice. 5 oz., 10c.; by mail, 17c.; 15 oz., 25c.; by mail, 40c.; 48 oz., 50c.; by mail, \$1.10; 100 oz., \$1.00.

Death to Lice—Special. Dissolve in kerosene. 4 oz., 10c.; 16 oz., 25c.; 1c per oz. extra for postage.

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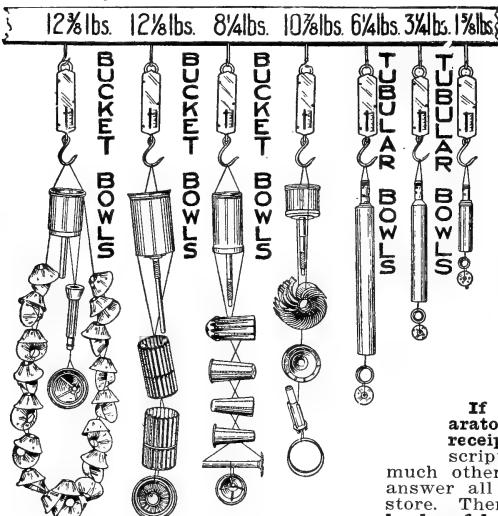
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For 29 years the standard. More Sharples Separators are in use today than all others combined.

If you milk a few cows you need a separator. If you milk many cows and do not use a separator, you are losing many times its cost.

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Buckets solid brass. Gear worm runs in oil. Babcock Testers are guaranteed perfect in workmanship and material; all are equipped with full set of glassware, bottle of acid and brush. Shipping weight, 15 lbs.

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Put up in 1-gallon sealed cans only.

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ORDER A CAN WITH YOUR OTHER GOODS, AND BE READY FOR THE FLIES WHEN THEY COME.

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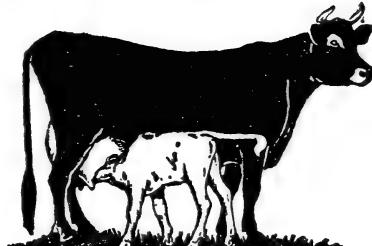
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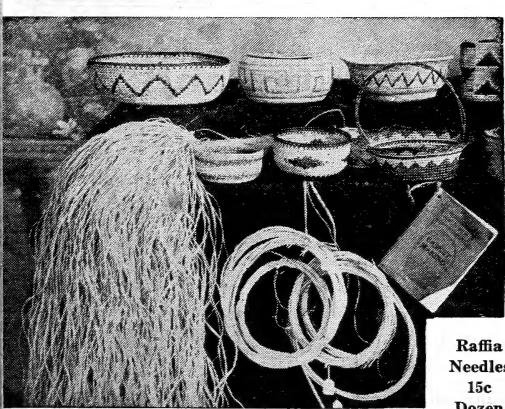
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Farm Tools, etc.	94-98	Millet	43	Strawberry Plants	92-93
Ferns	80	Mushroom Spawn	20	Sweet Peas	63-66
Fertilizers	99-100	Nasturtiums	58	Thermometers	124
Fertilizer Drill	100	Nitro-Culture	100	Tin Foil	110
Field Peas	43	Nozzles and Fittings	106	Tobacco	36
Florists' and Nursery Supplies	108-111	Oats	45-47	Traps	111
Flower Pots	90	Onion Sets	24	Tree Seeds	36
Flower Seeds	50-66	Paeonies	77	Trowels	111
Flowering Plants and Bulbs	69-83	Pansy Plants	80	Vegetable Plants and Roots	94
Formaldehyde	106	Pansies, Seed	59-60	Vegetable Seed Dept.	2-38
Fruit Trees and Bushes	91	Pasture Mixtures	42	Vetches or Tares	44
Garden Seeds	2-38	Planet Jr. Implements	96-98	Weeders	111
		Plant Food	100	Wheat	44
				Wire Netting	125

Revised Prices on STRAWBERRY PLANTS

In Lots of 1000

PRICE LIST OF PLANTS.

By express or freight, packed in ventilated crates.

ACME	\$10.00	GOLD DOLLAR	5.00
ADMIRAL DEWEY	4.50	MAGOON	4.50
CLARK'S SEEDLING	4.50	MARSHALL	5.00
GANDY	5.00	NEW OREGON—Improved	7.00
WILSON			4.50

USE THESE PRICES WHEN YOU ORDER BY THE THOUSAND.
Write for special quotations on large orders. For descriptions see pages 92-93,

We have completed arrangements to increase the production of our "Diamond Quality" plants to meet every demand, and can furnish pot or field grown plants from August until spring.

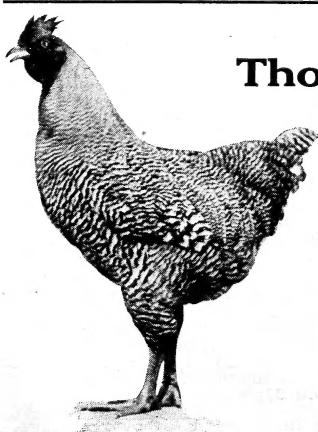
We are the introducers of the famous "New Oregon" Strawberry. Our select strain is the true one; our plants the best.

Thoroughbred Poultry and Eggs For Setting

We make a specialty of supplying thoroughbred poultry and eggs, having expert poultrymen in our employ who are capable, experienced judges, and you can feel every confidence in entrusting your orders to us, as we are in a position to give you best values, and whether you are an expert or an amateur, you can feel that poultry or eggs purchased from us are all or more than is claimed for them.

Prices quoted on request.

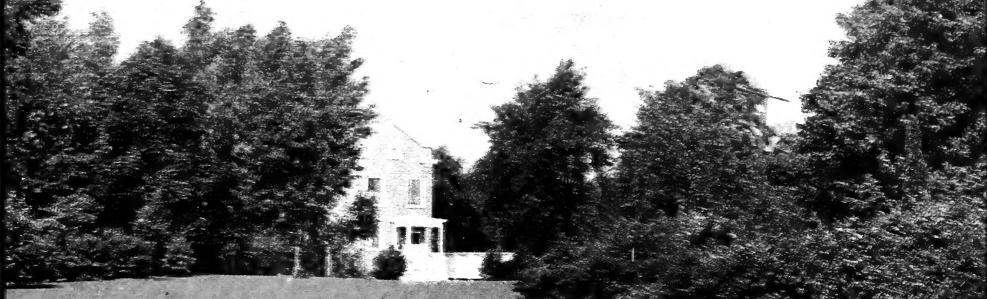
NOTE.—Regular customers are requested to send list of their stock and eggs they can supply.



1 LB. FULL WEIGHT

PRICE 35¢

WILL SOW 400 SQUARE FEET



DIAMOND MIXED LAWN GRASS

OUR OWN FORMULA

MAKES AN

EVERGREEN - VELVETY - TURF

PORTLAND
PORTLAND, OREGON.



Diamond Mixed Lawn Grass

Is our own special formula prepared from new crop re-cleaned seed and we believe is absolutely the best combination of grasses for lawn purposes. See Page 40—HOW TO PREPARE A LAWN.

Ask for Free Pamphlet on Planting and Care of Lawns.

Flowering and Vegetable Plants

Pots, or Garden can be supplied promptly in any quantity. Florists and large growers write for prices. SEE PLANT DEPARTMENT.

Annuals and Perennials for Bedding,

For Weights of Seeds and Amounts to Sow, See page 47.

SEED GROWERS IMPORTERS & EXPORTERS

Our Seed Field
of
"MAGNIFICENT"
Peas

A Single
Plant of
"MAGNIFICENT"
130 Pod's

PORTLAND SEED CO. PORTLAND ORE.